## CHAPTER IV

## RESULT OF THE STUDY

In this chapter, the writer presented the research findings, result data analysis and discussion.

## A. The Data Description

In this section, it described the obtained data of improvement the students'writing descriptive text before and after taught by Facebook and nonFacebook. The presented data consisted of distribution of pre-test score of experimental and control group and also the distribution of post test score of experimental group and control group.

## 1. The Result of Pretest Score Experimental Group and Control Group

Table 4.1 Pre-Test Score of Control and Experimental Group

| Experimental Group |  | Control Group |  |
| :---: | :---: | :---: | :---: |
| Code | Score | Code | Score |
| E01 | 66 | C01 | 53 |
| E02 | 47 | C02 | 47 |
| E03 | 59 | C03 | 41 |
| E04 | 47 | C04 | 47 |
| E05 | 53 | C05 | 53 |
| E06 | 53 | C06 | 47 |
| E07 | 47 | C07 | 41 |


| E08 | 53 | C08 | 38 |
| :---: | :---: | :---: | :---: |
| E09 | 47 | C09 | 47 |
| E10 | 41 | C10 | 41 |
| E11 | 59 | C11 | 59 |
| E12 | 53 | C12 | 47 |
| E13 | 47 | C13 | 47 |
| E14 | 59 | C14 | 53 |
| E15 | 59 | C15 | 53 |
| E16 | 59 | C16 | 53 |
| E17 | 59 | C17 | 47 |
| E18 | 47 | C18 | 47 |
| E19 | 66 | C19 | 59 |
| E20 | 59 | C20 | 53 |
| E21 | 72 | C21 | 53 |
| E22 | 72 | C22 | 59 |
| E23 | 59 | C23 | 66 |
| E24 | 66 | C24 | 63 |
| E25 | 59 | C25 | 47 |
| E26 | 53 | C26 | 47 |
| E27 | 50 | C27 | 47 |
| E28 | 53 | C28 | 47 |
| E29 | 66 | C29 | 66 |
| E30 | 59 | C30 | 59 |
| E31 | 59 | C31 | 59 |
| E32 | 66 | C32 | 66 |
| E33 | 59 | C33 | 59 |


| E34 | 47 | C34 | 47 |
| :---: | :---: | :---: | :---: |
| E35 | 41 | C35 | 41 |
| E36 | 47 | C36 | 47 |

## a. The Result of Pretest Score of Experimental Group

The pre test was conducted on Monday 24 August 2015 in the X-MIPA 2 room. The students asked to write descriptive text that interested them about the tourism place that should cover the generic structure consisted of identification and description and allocated time was 90 minutes. The students' pre-test score of experiment group were distributed in the following table (see appendix 5) in order analizing the students' background knowledge of descriptive text before the treatment. Then, it was presented using distribution frequency in the following table:

Table 4.2 Frequency Distribution of Pre test Experiment Group

| Experiment |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | 41 | 2 | 5,6 | 5,6 | 5,6 |
|  | 47 | 8 | 22,2 | 22,2 | 27,8 |
|  | 50 | 1 | 2,8 | 2,8 | 30,6 |
|  | 53 | 6 | 16,7 | 16,7 | 47,2 |
|  | 59 | 12 | 33,3 | 33,3 | 80,6 |
|  | 66 | 5 | 13,9 | 13,9 | 94,4 |
|  | 72 | 2 | 5,6 | 5,6 | 100,0 |
|  | Total | 36 | 100,0 | 100,0 |  |

The distribution of students' score in pretest of experimental group can also be seen in the following figure.


Figure 4.1 The Frequency of Distribution of Pretest Experimental Group
Based on the figure above, it can be seen that the students pretest score of experiment group. There were two students who got score 41 . There were eight students who got score 47 . There was one student who got score 50 . There were six students who got score 53 . There were twelve students who got score 59. There were five students who got score 66. And, there were two students who got score 72.

The next step, the writer calculated the scores of mean, standard deviation, and standard error using SPSS 21 program as follows.

Table 4.3 The Calculation of Mean, Median, Mode, Standard Error of Mean and Standard Deviation
Statistics
Experiment

| N | Valid | 36 |
| :--- | ---: | ---: |
|  | Missing | 0 |
| Mean | 55,82 |  |
| Std. Error of Mean | 1,359 |  |
| Median | 59,38 |  |
| Mode | 59 |  |
| Std. Deviation | 8,154 |  |
| Minimum | 41 |  |
| Maximum | 72 |  |

Based on the calculation above, the higher score pre test of experimental group was 72 and the lowest score was 41 . And the result of mean was 55.82 , median was 59.38 , mode was 59 , the standard error of mean was 1.359 and the standard deviation was 8.154.

## a. The Result of Pre test Score of Control Group

The pre test was conducted on Wednesday 12 August 2015 in the X-MIPA 1 room. The students asked to write descriptive text that interested them about the tourism place that should cover the generic structure consisted of identification and description and allocated time was 90 minutes. The students' pre-test score of control group were distributed in the following table (see in appendix 5) in order analizing the students' background knowledge. Then, it was presented using frequency distribution in the following table:

Table 4.4 Distribution Frequency of Pre test Control Group

| Control |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Frequency | Percent | Valid Percent | Cumulative <br> Percent |
| Valid | 38 | 1 | 2,8 | 2,8 | 2,8 |
|  | 41 | 4 | 11,1 | 11,1 | 13,9 |
|  | 47 | 14 | 38,9 | 38,9 | 52,8 |
|  | 53 | 7 | 19,4 | 19,4 | 72,2 |
|  | 59 | 6 | 16,7 | 16,7 | 88,9 |
|  | 63 | 1 | 2,8 | 2,8 | 91,7 |
|  | 66 | 3 | 8,3 | 8,3 | 100,0 |
|  | Total | 36 | 100,0 | 100,0 |  |

The distribution of students' score in pretest of control group can also be seen in the following figure.


Figure 4.2 The Frequency of Distribution of Pretest Control Group

Based on the figure above, it can be seen that the students pretest score of control group. There was one student who got score 38 . There were four students who got score 41. There were fourteen students who got score 47 . There were seven students who got score 53 . There were six students who got score 59 . There was one student who got score 63. And, there were three students who got score 66.

The next step, the writer calculated the scores of mean, standard deviation, and standard error using SPSS 21 program as follows:

Table 4.5 The Calculation of Mean, Standard Error of Mean, Standard Deviation

Statistics
Control

| N | Valid | 36 |
| :--- | :--- | ---: |
|  | Missing | 0 |
| Mean | 51,22 |  |
|  | 1,284 |  |
| Median | 46,88 |  |
| Mode | 47 |  |
| Std. Deviation | 7,701 |  |
| Minimum | 38 |  |
| Maximum | 66 |  |

Based on the calculation above, the higher score pre test of control group was 66 and the lowest score was 38 . And the result of mean was 51.22 , median was 46.88 , mode was 47 , the standard error of mean was 1.284 and the standard deviation was 7.701 .

## 2. The Result of Post Test Score Experimental Group and Control Group

Table 4.6 Post Test Score of Control and Experimental Group

| Experimental <br> Group |  | Control <br> Group |  |
| :---: | :---: | :---: | :---: |
| Code | Score | Code | Score |
| E01 | 72 | C01 | 59 |
| E02 | 59 | C02 | 59 |
| E03 | 72 | C03 | 53 |
| E04 | 53 | C04 | 56 |
| E05 | 66 | C05 | 63 |
| E06 | 59 | C06 | 63 |
| E07 | 56 | C07 | 56 |
| E08 | 66 | C08 | 53 |
| E09 | 53 | C09 | 59 |
| E10 | 53 | C10 | 53 |
| E11 | 78 | C11 | 63 |
| E12 | 72 | C12 | 56 |
| E13 | 59 | C13 | 59 |
| E14 | 78 | C14 | 63 |
| E15 | 72 | C15 | 59 |
| E16 | 84 | C16 | 59 |
| E17 | 66 | C17 | 53 |
| E18 | 59 | C18 | 53 |
| E19 | 78 | C19 | 72 |
| E20 | 72 | C20 | 59 |
| E21 | 84 | C21 | 66 |
|  |  |  |  |


| E22 | 84 | C22 | 66 |
| :---: | :---: | :---: | :---: |
| E23 | 78 | C23 | 72 |
| E24 | 84 | C24 | 66 |
| E25 | 72 | C25 | 53 |
| E26 | 66 | C26 | 56 |
| E27 | 66 | C27 | 56 |
| E28 | 66 | C28 | 59 |
| E29 | 84 | C29 | 72 |
| E30 | 78 | C30 | 66 |
| E31 | 72 | C31 | 66 |
| E32 | 84 | C32 | 72 |
| E33 | 72 | C33 | 66 |
| E34 | 66 | C34 | 59 |
| E35 | 53 | C35 | 56 |
| E36 | 59 | C36 | 56 |

## a. The Result of Post test Score of Experimental Group

The post test was conducted on Friday 25 September 2015 in the X-MIPA 2 room. The students asked to write descriptive text that interested them about the tourism place that should cover the generic structure consisted of identification and description, allocated time was 90 minutes and should post their text on Facebooks' group.The students' post test score of experiment class were distributed in the following table (see in appendix 5) in order analizing the students' wriitng descriptive
text after the treatment. Then, it was presented using frequency distribution in the following table:

Table 4.7 Frequency Distribution of Post Test Experimental Group

|  |  | Frequency | Percent | Valid Percent | Cumulative Percent |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Valid | 53 | 4 | 11,1 | 11,1 | 11,1 |
|  | 56 | 1 | 2,8 | 2,8 | 13,9 |
|  | 59 | 5 | 13,9 | 13,9 | 27,8 |
|  | 66 | 7 | 19,4 | 19,4 | 47,2 |
|  | 72 | 8 | 22,2 | 22,2 | 69,4 |
|  | 78 | 5 | 13,9 | 13,9 | 83,3 |
|  | 84 | 6 | 16,7 | 16,7 | 100,0 |
|  | Total | 36 | 100,0 | 100,0 |  |

The distribution of students' score in pretest of Experimental group can also be seen in the following figure.


Figure 4.3 The Frequency of Distribution of Post test Experimental Group

Based on the figure above, it can be seen that the students post test experimental group. There were four students who got score 53. There was one student who got score 56 . There were five students who got score 59 . There were seven students who got score 66 . There were eight students who got score 72 . There were five students who got score 78. And, there were six students who got score 84 .

The next step, the writer calculated the scores of mean, standard deviation, and standard error using SPSS 21 program as follow.

Table 4.8 The Calculation of Mean, Standard Error of Mean, Standard Deviation

Statistics
Experiment

| N | Valid |
| :--- | ---: |
|  | Missing |
| Mean | 0 |
|  | 69,36 |
| Median | 1,693 |
| Mode | 71,88 |
| Std. Deviation | 72 |
| Minimum | 10,156 |
| Maximum | 53 |

Based on the calculation above, the higher score post test of experimental group was 84 and the lowest score was 53 . And the result of mean was 69.36 , median was 71.88 , mode was 72 , the standard error of mean was 1.693 and the standard deviation was 10.156 .

## b. The Result of Post test Score of Control Group

The post test was conducted on Thursday 03 September 2015 in the X-MIPA 1 room. The students asked to write descriptive text that interested them about the tourism place that should cover the generic structure consisted of identification and description, allocated time was 90 minutes The students' post test score of control group were distributed in the following table (see in appendix 5) in order analizing the knowledge of descriptive text. Then, it was presented using frequency distribution in the following table:

Table 4.9 Distribution Frequency of Post test Control Group


The distribution of students' score in post test of control group could also be seen in the following figure.


Figure 4.4 The Frequency of Distribution of Post test Control Group

Based on the figure above, it can be seen that the students post test control group. There were six students who got score 53. There were seven students who got score 56 . There were nine students who got score 59. There were four students who got score 63 . There were six students who got score 66. And there were four students who got score 72 .

The next step, the writer calculated the scores of mean, standard deviation, and standard error using SPSS 21 program as follows:

Table 4.10 The Manual Calculation of Mean, Standard Error of

Mean, Standard Deviation

Statistics

| Control |  |  |
| :--- | :--- | :--- |
|  | Valid | 36 |
|  | Missing | 0 |


| Mean | 60,50 |
| :--- | :--- |
| Std. Error of Mean | , 958 |
| Median | 59,38 |
| Mode | 59 |
| Std. Deviation | 5,745 |
| Minimum | 53 |
| Maximum | 72 |

Based on the calculation above, the higher score pre test of control group was 72 and the lowest score was 53 . And the result of mean was 60.50 , median was 59.38 , mode was 59 , the standard error og mean was 0.958 and the standard deviation was 5.745 .

## 3. The Comparison Result of Pre-test and Post-test of Experimental and Control Group

Table 4.11 The Comparison Result of Pre-test and Post-test of

## Experimental and Control Group

| Experimental |  |  |  |  | Control |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No | Code | Pre <br> Test | Post <br> Test | Improvement | Code | Pre <br> Test | Post <br> Test | Improvement |$|$| 1 | E01 | 66 | 72 | 6 | C01 | 53 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | E02 | 47 | 59 | 12 | C02 | 47 |
| 3 | E03 | 59 | 72 | 13 | C03 | 41 |
| 4 | E04 | 47 | 53 | 6 | C04 | 47 |
| 5 | E05 | 53 | 66 | 13 | C05 | 53 |
| 6 | E06 | 53 | 59 | 6 | C06 | 47 |
| 7 | E07 | 47 | 56 | 9 | C07 | 41 |
| 8 | E08 | 53 | 66 | 13 | C08 | 38 |
| 9 | E09 | 47 | 53 | 6 | C09 | 47 |
| 10 | E10 | 41 | 53 | 12 | C10 | 41 |


| 11 | E11 | 59 | 78 | 19 | C11 | 59 | 63 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12 | E12 | 53 | 72 | 19 | C12 | 47 | 56 | 9 |
| 13 | E13 | 47 | 59 | 12 | C13 | 47 | 59 | 12 |
| 14 | E14 | 59 | 78 | 19 | C14 | 53 | 63 | 10 |
| 15 | E15 | 59 | 72 | 13 | C15 | 53 | 59 | 6 |
| 16 | E16 | 59 | 84 | 25 | C16 | 53 | 59 | 6 |
| 17 | E17 | 59 | 66 | 7 | C17 | 47 | 53 | 6 |
| 18 | E18 | 47 | 59 | 12 | C18 | 47 | 53 | 6 |
| 19 | E19 | 66 | 78 | 12 | C19 | 59 | 72 | 13 |
| 20 | E20 | 59 | 72 | 13 | C20 | 53 | 59 | 6 |
| 21 | E21 | 72 | 84 | 12 | C21 | 53 | 66 | 13 |
| 22 | E22 | 72 | 84 | 12 | C22 | 59 | 66 | 7 |
| 23 | E23 | 59 | 78 | 19 | C23 | 66 | 72 | 6 |
| 24 | E24 | 66 | 84 | 18 | C24 | 63 | 66 | 3 |
| 25 | E25 | 59 | 72 | 13 | C25 | 47 | 53 | 6 |
| 26 | E26 | 53 | 66 | 13 | C26 | 47 | 56 | 9 |
| 27 | E27 | 50 | 66 | 16 | C27 | 47 | 56 | 9 |
| 28 | E28 | 53 | 66 | 13 | C28 | 47 | 59 | 12 |
| 29 | E29 | 66 | 84 | 18 | C29 | 66 | 72 | 6 |
| 30 | E30 | 59 | 78 | 19 | C30 | 59 | 66 | 7 |
| 31 | E31 | 59 | 72 | 13 | C31 | 59 | 66 | 7 |
| 32 | E32 | 66 | 84 | 18 | C32 | 66 | 72 | 6 |
| 33 | E33 | 59 | 72 | 13 | C33 | 59 | 66 | 7 |
| 34 | E34 | 47 | 66 | 19 | C34 | 47 | 59 | 12 |
| 35 | E35 | 41 | 53 | 12 | C35 | 41 | 56 | 15 |
| 36 | E36 | 47 | 59 | 12 | C36 | 47 | 56 | 9 |
|  | Total | $\mathbf{2 0 0 8}$ | $\mathbf{2 4 9 5}$ | $\mathbf{4 8 7}$ | Total | $\mathbf{1 8 4 6}$ | $\mathbf{2 1 7 7}$ | $\mathbf{3 3 1}$ |
|  | Mean | $\mathbf{5 5 , 8}$ | $\mathbf{6 9 , 3 6}$ |  | Mean | $\mathbf{5 1 , 2 2}$ | $\mathbf{6 0 , 5 0}$ |  |
|  | Highest | $\mathbf{7 2}$ | $\mathbf{8 4}$ |  | Highest | $\mathbf{6 6}$ | $\mathbf{7 2}$ |  |
|  | Lowest | $\mathbf{4 1}$ | $\mathbf{5 3}$ |  | Lowest | $\mathbf{3 8}$ | $\mathbf{5 3}$ |  |

## 4. Testing the Normality and Homogeinity

## a. Normality Test

The writer used SPSS 21 to measure the normality of the data.

## 1) Testing Normality of Post Test Experimental and Control Group

Table 4.13 Testing Normality of Post Test Experimental and Control Group

One-Sample Kolmogorov-Smirnov Test

|  |  | Experiment | Control |
| :--- | :--- | ---: | ---: |
| N |  | 36 | 36 |
|  | Normal Parameters ${ }^{\text {a,b }}$ | Mean | 69,36 |
|  | Std. Deviation | 60,50 |  |
|  | Absolute | 10,156 | 5,745 |
| Most Extreme Differences | Positive | , 126 | , 189 |
|  | Negative | , 116 | , 189 |
| Kolmogorov-Smirnov Z |  | ,- 126 | ,- 100 |
| Asymp. Sig. (2-tailed) |  | , 754 | 1,134 |

a. Test distribution is Normal.
b. Calculated from data.

The criteria of the normality test of post test if the value of (probability value/critical value) was higher than or equal to the level of significance alpha defined, it means that the distribution was normal. Based on the calculation used SPSS 21.00 program, asymptotic significance normality of control group was 0.153 and experiment group 0.620 . Then the normality both of class was consulted with table of Kolmogorov- Smirnov with the level of significance $5 \%(\alpha=0.05)$. because asymptotic significance of control $0.153>0.05$, and asymptotic significance of experiment $0.620>0.05$.
it could be concluded that the data was normal distribution. It meant that the students' pre test score of experimental and control group had normal distribution.

## b. Homogeinity Test

2) Testing Homogeinity of Post Test Experimental and Control Group

Table 4.15 Testing Homogeinity of Post-Test Experimental and Control Group

Test of Homogeneity of Variances

| Levene Statistic | df1 | df2 | Sig. |
| ---: | ---: | ---: | ---: |
| , 890 |  | 5 | 30 |,, 500.

The criteria of the homogeneity test post test was if the value of (probability value/critical value) was higher than or equal to the level of significance alpha defined $(\mathrm{r}=\mathrm{a})$, it means that, the distribution was homogeneity. Based on the calculation using SPSS 21.0 above, the value of (probably value/critical value) from post test of the experimental and control group on Homogeneity of Variances in sig column is known that p -value was 0,500 . The data in this study fulfilled homogeneity since the p value is higher $0,500>0.05$.

## B. Result Data Analysis

## 1. Testing Hyphothesis Using Manual Calculation

To test the hypothesis of the study, the writer used t-test statistical calculation. Firstly, the writer calculated the standard deviation and the error
of $X_{1}$ and $X_{2}$ at the previous data persentation. In could be seen on this following table:

Table 4.16
The Standard Deviation and Standard Error of $\mathbf{X}_{1}$ and $\mathbf{X}_{2}$

| Variable | The Standard <br> Deviation | The Standard Error <br> of Mean |
| :---: | :---: | :---: |
| $\mathrm{X}_{1}$ | 10.156 | 1.693 |
| $\mathrm{X}_{2}$ | 5.754 | 0.958 |

$\mathrm{X}_{1} \quad=$ Experimental Group
$\mathrm{X}_{2}=$ Control Group
The table showed the result of the standard deviation calculation of $\mathrm{X}_{1}$ was 10.156 and the result of the standard error mean calculation was 1.693. The result of the standard deviation calculation of $X_{2}$ was 5.754 and the result of the standard error mean calculation was 0.958 .

The next step, the writer calculated the standard error of the difference mean between $X_{1}$ and $X_{2}$ as follows:

Standard error of mean of score difference between Variable I and Variable II

$$
\begin{aligned}
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=\mathrm{SE}_{\mathrm{M} 1}^{2}+\mathrm{SE}_{\mathrm{M} 2}^{2} \\
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=\sqrt{(1.693)^{2}+(0.958)^{2}} \\
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=\sqrt{2.866249+0.917764}
\end{aligned}
$$

$$
\begin{aligned}
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=\sqrt{3.784013} \\
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=1.9452539679949 \\
& \mathrm{SE}_{\mathrm{M} 1}-\mathrm{SE}_{\mathrm{M} 2}=\mathbf{1 . 9 4 6}
\end{aligned}
$$

The calculation above showed the standard error of the differences mean between $X_{1}$ and $X_{2}$ was 1.946 . Then, it was inserted to the $t_{\text {test }}$ formula to get the value of $t$ test as follows:
$t_{o}=\frac{\mathrm{M} 1-\mathrm{M} 2}{S E m 1-S E m 2}$
$t_{o}=\frac{69.36-60.50}{1.946}$
$t_{o}=\frac{8.86}{1.946}$
$t_{o}=4.55292909$
$t_{o}=4.553$

Which the criteria:

If t -test $\geq \mathrm{t}$-table, Ha is accepted and Ho is rejected

If t -test $<\mathrm{t}$-table, Ha is rejected and Ho is accepted

Then, the writer interpreted the result of t -test; previously, the writer accounted the degree of freedom (df) with the formula:

Df $\quad=\left(\mathrm{N}_{1}+\mathrm{N}_{2}\right)-2$

$$
=36+36-2=70
$$

The writer chose the significant levels at $5 \%$, it means the significant level of refusal of null hypothesis at $5 \%$. The writer decided the significance level at $5 \%$ due to the hypothesis typed stated on nondirectional (two-tailed test). It meant that the hypothesis can't direct the prediction of alternative hypothesis. Alternative hypothesis symbolized by " 1 ". This symbol could direct the answer of hypothesis, " 1 " can be ( $>$ ) or (く). The answer of hypothesis could not be predicted whether on more than or less than.

The calculation above showed the result of t-test calculation as in the table follows:

Table 4.17

## The Result of T-Test Using Manual Calculation

| Variable | T test | $\mathbf{T}$ table |  | Df/db |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $\mathbf{5 \%}$ | $\mathbf{1 \%}$ |  |
| $\mathrm{X}_{1}-\mathrm{X}_{2}$ | 4.553 | 1.994 | 2.648 | 70 |

Where:

| $\mathrm{X}_{1}$ | $=$ Experimental Group |
| :--- | :--- |
| $\mathrm{X}_{2}$ | $=$ Control Group |
| T test | $=$ The Calculated Value |


| T table | $=$ The Distribution of t Value |
| :--- | :--- |
| $\mathrm{Df} / \mathrm{db}$ | $=$ Degree of Freedom |

Based on the result of hypothesis test calculation, it was found that the value of $\mathrm{t}_{\text {observed }}$ was greater than the value of $\mathrm{t}_{\text {able }}$ at $1 \%$ and $5 \%$ significance level or $1.994<4.553>2.648$. It means $H_{a}$ was accepted and $H_{o}$ was rejected. It meant $\mathrm{H}_{\mathrm{a}}$ was accepted and $\mathrm{H}_{\mathrm{o}}$ was rejected. It could be interpreted based on the result of calculation that $\mathrm{H}_{\text {a stating that }}$ Facebook was effective for Teaching Writing Descriptive Text of the tentth grade students at SMAN 2 Pahandut Palangka Raya was accepted and Ho stating that Facebook was not effective for Teaching Writing Descriptive Text of the tenth grade students at SMAN 2 Pahandut Palangka Raya was rejected. It meant that teaching writing with Facebook was effective for Teaching Writing Descriptive Text of the tenth graders of SMAN 2 Pahandut Palangka Raya gave significant effect at 5\% and 1\% significance level.

## 2. Testing Hypothesis Using SPSS 21.0 Program

The writer also applied SPSS 21.0 program to calculate t test in testing hypothesis of the study. The result of the $t$ test using SPSS 21.0 was used to support the manual calculation of the $t$ test. The result of the test using SPSS 21.0 program could be seen as follows:

Table 4.18

## Mean, Standard Deviation and Standard Error of Experiment Group and

## Control Group using SPSS 21.0 Program

| Group Statistics |  |
| :--- | :--- | ---: | ---: | ---: | ---: |
| $*$ Group N Mean Std. Deviation Std. Error Mean <br> Score Experiment 36 69,36 10,156 1,693 <br>  Control 36 60,50 5,745 , 958 |  |

The table showed the result of mean calculation of experimental group was 69.36, standard deviation calculation was 10.156 , and standard error of mean calculation was 1.693 . The result of mean calculation of control group was 60.50 , standard deviation calculation was 5.745 , and standard error of mean was 0.958 .

Table 4.19 The Calculation of T - Test Using SPSS 21.0

|  |  | Levene's Test for <br> Equality of Variances |  | t-test for Equality of Means |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | F | Sig. | t | df | Sig. (2tailed) | Mean <br> Differenc <br> e | Std. <br> Error Differenc e | 95\% Confidence Interval of the Difference |  |
|  |  | Lower |  |  |  |  |  |  | Upper |
|  | Equal variances assumed |  | 14,177 | ,000 | 4,553 | 70 | ,000 | 8,854 | 1,945 | 4,976 | 12,733 |
|  | Equal variances not assumed |  |  | 4,553 | $\begin{array}{r} 55,32 \\ 2 \end{array}$ | ,000 | 8,854 | 1,945 | 4,957 | 12,751 |

The table showed the result of $t$ - test calculation using SPSS 21.0 program. To know the variances score of data, the formula could be seen as follows: If $\alpha=0.05<$ Sig, Ho accepted and Ha rejected If $\alpha=0.05>$ Sig, Ha accepetd and Ho rejected

Since the result of post test between experiemental and control group had difference score of variance, it found that $\alpha=0.05$ was higher than Sig (2tailed) or $(0.05>0.00)$, so that Ha was accpeted and Ho was rejected. The result of $\mathrm{t}_{\text {test }}$ was 4.553, mean difference between experimental and control group was 8.854 and the standard error difference between experimental and control group was 1.945 .

To examine the truth or the false of null hypothesis stating that the there is no effect of Facebook in writing descriptive text at tenth graders of SMAN 2 Pahandut Palangka Raya. The result of $t$ - test was interpreted on the result of degree of freedom to get the table. The result of degree of freedom (df) was 70. The following table was the result of tobserved and table from 70 df at $5 \%$ and $1 \%$ significance level.

Table 4.20

The Result of T-Test Using SPSS 21.0 Program

| $\mathrm{t}^{-}$test | t -table |  | Df |
| :---: | :---: | :---: | :---: |
|  | $5 \%(0,05)$ | $1 \%(0,01)$ |  |
| 4.553 | 1.994 | 2.648 | 70 |

The interpretation of the result of $t$-test using SPSS 21.0 program, it was found the $t$ observe was greater than the $t$ table at $1 \%$ and $5 \%$ significance level or $1.994<4.553>2.648$. It means that $H_{a}$ was accepted and $H_{o}$ was rejected It could be interpreted based on the result of calculation that $\mathrm{H}_{\mathrm{a}}$ stating that Facebook was effective for Teaching Writing Descriptive Text of the tentth grade students at SMAN 2 Pahandut Palangka Raya was accepted and Ho stating that Facebook was not effective for Teaching Writing Descriptive Text of the tenth grade students at SMAN 2 Pahandut Palangka Raya was rejected. It meant that teaching writing with Facebook was effective for Teaching Writing Descriptive Text of the tenth graders at SMAN 2 Pahandut Palangka Raya gave significant effect at 5\% and $1 \%$ significance level.

## C. Discussion

The result of analysis showed that there was significant effect of Facebook in writing descriptive text at tenth graders of SMAN 2 Pahandut Palangka Raya. It can be seen from the means score between pre-test and post test. The mean score of post test reached higher score than the mean score of Pre-test ( $\mathrm{X}=69.36<\mathrm{Y}=60.50$ ). It indicated that the students' score increased after conducting treatment. In other words, the students writing descriptive text taught by Facebook have better than those taught by non-Facebook at the tenth graders of SMAN 2 Pahandut Palangka Raya.

In addition, after the data was calculated using the $t_{\text {test }}$ formula using SPSS 21.00 program showed that the $\mathrm{t}_{\text {observed }}$ was 4.553 . In addition, After the students have been taught by using Facebook, the writing score were higher
than before implementing it. This finding indicated that Facebook was effective and supported the previous research done by Ria Ristibantari and Meyla Arih Yustari that also stated teaching writing by using Facebook was effective.

In teaching learning process, taught writing descriptive text by using Facebook was a tool used by the writer to teach the students. It could be seen from the score of students how the used of Facebook gave positive effects for students writing descriptive text. It meant that it has important role in teaching learning process. It was answered the problem of the study which "Is there any significant effect of Facebook in writing descriptive text at tenth graders of SMAN 2 Pahandut Palangka Raya?".

Facebook as means for language learning, effectively enhanced the writing descriptive text at tenth graders of SMAN 2 Pahandut Palangka Raya. The students writing descriptive text was enhanced after the treatment when they were given opportunities to use Facebook in the learning process. They wrote better descriptive text using more meaningful contents within a wellorganized text in the post test

The results supported theory by Dare and Gar in Chaper II page 14, stated that Facebook helped students increase own language learning in a fun and motivating way. ${ }^{54}$ The students gave their attention to the material because the writer used different media than usual. Using Facebook as a media in writing text actively encourages collaborrative environment, increases

[^0]motivation and the students participation. They could be update the writing assignments on Faceboook and their friends commented on their writing.

Next results supported theory by Terantino and Graf in Chapter II page 15, stated that integrating Facebook in foreign language course had several perceived that using Facebook seems to have a significant impact on language learning. Such as the nature of the students-to-students and students-toinstructor instructions is more multi-dimensional than traditional writing assignment. ${ }^{55}$ In line with it, the writer gave the students the assignment of descriptive text and asked them to post their writing on Facebook not on paper so that the students had antusiasm on produce the text.

The result of t -test using SPSS 21.0 program, it was found the t test was greater than the t table at $1 \%$ and $5 \%$ significance level or $1.994<$ 4.553>2.648. It means that $\mathrm{H}_{\mathrm{a}}$ was accepted and $\mathrm{H}_{\mathrm{o}}$ was rejected. It could be interpreted based on the result of calculation that $\mathrm{H}_{\mathrm{a}}$ stating that Facebook was effective for Teaching Writing Descriptive Text of the tenth graders of SMAN 2 Pahandut Palangka Raya was accepted and Hostating that Facebook was not effective for teaching writing descriptive ext of the tenth graders of SMAN 2 Pahandut Palangka Raya was rejected. It meant that teaching writing with Facebook was effective for teaching writing descriptive text of the tenth graders of SMAN 2 Pahandut Palangka Raya.

[^1]
[^0]:    ${ }^{54}$ Louis Dare and Coleg Sir Gar, P 6

[^1]:    ${ }^{55}$ J Terantino, K Graf, P 5

