CHAPTER IV

RESEARCH FINDINGS AND DISCUSSION

This chapter is devoted to the results of the study. It mainly focus on the students' perceptual learning style preferences of English Education Program at STAIN Tulungagung, the TOEFL test score, and the correlation between their students' perceptual learning style preferences and English Proficiency. Findings will be presented in the same sequence with the research questions.

A. The Description of the Data

1. Students' Perceptual Learning Style Preferences

The data of Students' perceptual learning style preferences was the result of the shared questionnaire. The result of the above-mentioned questionnaire is as follows:

Table 4.1

Subject		Score				
Subject	Visual	Auditory	Kinesthetic	Major LS		
1	40	36	36	Visual		
2	32	38	30	Auditory		
3	42	34	38	Visual		
4	38	28	32	Visual		
5	34	40	36	Auditory		
6	36	46	36	Auditory		
7	30	34	38	Kinesthetic		
8	38	36	36	Visual		
9	36	36	40	Kinesthetic		
10	38	32	32	Visual		
11	40	40	36	Visual		
				Continued		

The result of Perceptual Learning Style Preferences Questionnaire

12	36	42	38	Auditory
13	42	34	36	Visual
14	40	36	36	Visual
15	36	34	40	Kinesthetic
16	36	38	44	Kinesthetic
17	36	34	42	Kinesthetic
18	36	22	38	Kinesthetic
19	38	42	36	Auditory
20	34	42	32	Auditory
21	40	34	44	Kinesthetic
22	42	38	28	Visual
23	42	36	36	Visual
24	34	38	28	Visual
25	38	32	34	Visual
26	28	38	24	Visual
27	42	30	30	Visual
28	34	32	38	Kinesthetic
29	34	38	34	Auditory
30	34	40	34	Auditory
31	34	32	38	Kinesthetic
32	38	42	34	Auditory
33	34	30	38	Kinesthetic
34	26	38	36	Auditory
35	32	38	28	Auditory
36	38	28	26	Visual
37	38	32	42	Kinesthetic
38	30	38	34	Auditory
39	36	30	40	Kinesthetic
40	40	32	34	Visual
41	36	40	36	Auditory
42	38	30	34	Visual
43	36	40	32	Auditory
44	36	38	34	Auditory
45	40	28	30	Visual
46	36	38	34	Auditory
47	46	28	36	Visual
48	34	44	32	Auditory
49	38	40	30	Auditory
50	46	36	38	Visual
51	36	34	40	Kinesthetic
52	36	34	38	Kinesthetic
53	34	36	38	Kinesthetic
				Continued

Continuation				
54	30	36	40	Kinesthetic
55	38	30	46	Kinesthetic
56	36	30	40	Kinesthetic
57	36	34	38	Kinesthetic
58	44	26	32	Visual
59	48	26	38	Visual
60	40	34	44	Kinesthetic

The table 4.1 related to Students' perceptual learning style preferences

above is figured in figure 4.1 below to make it easy to understand.

Figure	4.1
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Distribution of Overall Students' Perceptual Learning Style Preference



Based on the table 4.1 and figure 4.1., it show that 23 students have major learning style in visual, 36 students have minor learning style in visual, and one student is negligible. 27 students have major learning style in auditory, 33 students have minor learning style in auditory, and no one is negligible. 24 students have major learning style in kinesthetic, 35 students have minor learning style in kinesthetic, and one student is negligible. Then the data was computed using descriptive statistic using SPSS 19.0 for windows. The result is as follows:

Table 4.2

The Mean of Students' Perceptual Learning Style Preferences

Statistics

Perceptual Learning Style Preferences N Valid 60 Missing 0

			Style		
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	Auditory	18	30.0	30.0	30.0
	Kinesthetic	20	33.3	33.3	63.3
	Visual	22	36.7	36.7	100.0
	Total	60	100.0	100.0	

Based on the table 4.2 it shows that from the 60 students responding the questionnaire about perceptual learning style, there are 18 students (30.0 %) are Auditory learner, 20 students (33.3 %) are kinesthetic learner, and the last 22 students (36.7%) are Visual learner.

Table 4.3

The Descriptive Analysis of the Perceptual Learning Style Preferences

	Ν	Minimum	Maximum	Mean	Std. Deviation
Auditory	24	22.00	46.00	36.2500	4.91006
Visual	60	26.00	48.00	36.9333	4.18985
Kinesthetic	60	24.00	46.00	35.7000	4.53723
Valid N (listwise)	24				

Descriptive Statistics

Based on the table above, it shows that from the 60 students responding questionnaire about perceptual learning style preferences,

Auditory is obtained the minimum score 22; the maximum score is 46; the mean score is 36.2500; and the standard deviation is 4.91006. Visual is obtained the minimum score 26; the maximum score is 48; the mean score is 36.9333; and the standard deviation is 4.18985. Kinesthetic is obtained the minimum score 24; the maximum score is 46; the mean score is 35.7000; and the standard deviation is 4.53723.

According to the scoring system introduced by Reid (1987), scores 38-50 showed major learning style preference, scores 25-37 showed minor learning style preference and scores 0-24 are categorized as negligible learning styles. As Table 4.3 showed the mean score for all learning styles were 35-37. Therefore, all learning styles were minor learning style preference for the students.

Figure 4.2

The Bar Chart of the Students' Perceptual Learning Style Preferences



Based on the figure 4.2. it shows that there are 18 students are auditory in the lowest bar, 20 students are kinesthetic in the middle bar and visual learners are 22 students in the tallest bar.

2. English Proficiency

The data related English Proficiency was taken from TOEFL test score as the result of documentation. The result of the TOEFL Test score is as follows:

Table 4.4

Subject	TOEFL Score	Subject	TOEFL Score	Subject	TOEFL Score
1	497	21	430	41	393
2	450	22	470	42	477
3	497	23	450	43	427
4	530	24	413	44	470
5	487	25	450	45	420
6	500	26	453	46	447
7	427	27	450	47	527
8	476	28	410	48	403
9	410	29	410	49	403
10	533	30	420	50	500
11	417	31	453	51	367
12	467	32	373	52	440
13	490	33	407	53	417
14	497	34	373	54	430
15	450	35	410	55	420
16	413	36	413	56	437
17	413	37	450	57	390
18	460	38	440	58	407
19	377	39	430	59	503
20	433	40	477	60	393

The TOEFL test score

Then the data was computed using descriptive statistic using SPSS 19.0 for windows. The result is as follows:

Table 4.5

The Frequency of TOEFL Test Score

			TOLLE		
					Cumulative
		Frequency	Percent	Valid Percent	Percent
Valid	367.00	1	1.7	1.7	1.7
	373.00	2	3.3	3.3	5.0
	377.00	1	1.7	1.7	6.7
	390.00	1	1.7	1.7	8.3
	393.00	2	3.3	3.3	11.7
	403.00	2	3.3	3.3	15.0
	407.00	2	3.3	3.3	18.3
	410.00	4	6.7	6.7	25.0
	413.00	4	6.7	6.7	31.7
	417.00	2	3.3	3.3	35.0
	420.00	3	5.0	5.0	40.0
	427.00	2	3.3	3.3	43.3
	430.00	3	5.0	5.0	48.3
	433.00	1	1.7	1.7	50.0
	437.00	1	1.7	1.7	51.7
	440.00	2	3.3	3.3	55.0
	447.00	1	1.7	1.7	56.7
	450.00	6	10.0	10.0	66.7
	453.00	2	3.3	3.3	70.0
	460.00	1	1.7	1.7	71.7
	467.00	1	1.7	1.7	73.3
	470.00	2	3.3	3.3	76.7
	476.00	1	1.7	1.7	78.3
	477.00	2	3.3	3.3	81.7
	487.00	1	1.7	1.7	83.3
	490.00	1	1.7	1.7	85.0
	497.00	3	5.0	5.0	90.0
	500.00	2	3.3	3.3	93.3

TOEFL

Continued

Continuation	_		_	
503.00	1	1.7	1.7	95.0
527.00	1	1.7	1.7	96.7
530.00	1	1.7	1.7	98.3
533.00	1	1.7	1.7	100.0
Total	60	100.0	100.0	

The table 4.5 related to Students' TOEFL score above is figured in figure 4.3 below to make it easy to understand.



The interpretation of table 4.5 and figure 4.3 will be presented in appendix 3.

Table 4.6

The Descriptive Analysis of the TOEFL Test Score

		2 esemper e	Statistics		Descriptive Statistics						
	Ν	Minimum	Maximum	Mean	Std. Deviation						
TOEFL	60	367.00	533.00	441.2833	40.62524						
Valid N	60										
(listwise)											

Descriptive Statistics

Based on the table above, it shows that from the 60 students following TOEFL test, is obtained the minimum score is 367; the maximum score is 533; the mean score is 441.2833; and standard deviation is 40.62524. Based on the result of the TOEFL test, the researcher used the qualification as follows (carson, et al., 1990):

- a. Elementary : 310 420
- b. Low intermediate : 420 480
- c. High intermediate : 480 520
- d. Advanced : 525 677

From the descriptive analysis, it shows that the mean of TOEFL score of sixth semester of Students majoring in English Education Program is 441, which it means that their English Proficiency is in the Low Intermediate level. This level means that students of English Education Program Have the ability to understand simple, low frequency spoken English used in routine academic and social settings whit some characteristics such as Usually understand: simple or routine directions, short simple conversations, and short simple discussions on familiar topics; often identify and distinguish key words and phrases necessary to understand the general meaning; and request the speaker to repeat, slow down, or rephrase speech when failing to comprehend

B. Hypothesis Testing

As stated in chapter I, the null hypothesis research is "there is no correlation between perceptual learning styles and English proficiency" to find out whether the null hypothesis is accepted or rejected, the researcher used Pearson Product Moment Correlation using SPSS 19.0 for windows. To test the hypothesis the guidance bellow was applied (Sujianto, 2009:53)

- If *r*-count > *r*-table, or ρ -value in column sig. (2-tailed) < level of significant (α), then Ha is accepted.
- If *r*-count < *r*-table, or ρ -value in column sig. (2-tailed) > level of significant (α), then Ho is accepted.

The analysis result as follows:

Table 4.7

The Analysis Result of the Pearson Product Moment Correlation between

Correlations					
		Visual	Proficiency		
Visual	Pearson Correlation	1	.422**		
	Sig. (2-tailed)		.001		
	Ν	60	60		
Proficiency	Pearson Correlation	.422**	1		
	Sig. (2-tailed)	.001			
	Ν	60	60		

Visual Learning Style and English Proficiency

**. Correlation is significant at the 0.01 level (2-tailed).

Correlations

Based on table 4.7; Visual learning style and English proficiency; the coefficient correlation is 0.422 that it means the correlation is moderate.

The *sig (2-tailed)* value, 0.001 is less than level of significance (α) 5% then Ha₁ is accepted and Ho₁ is rejected. It can be concluded that there is a significant correlation between visual learning styles preference and English proficiency. This means, increases or decreases in visual learning style significantly relate to increases or decreases in English proficiency.

Table 4.8

The Analysis Result of the Pearson Product Moment Correlation between

Correlations				
		Auditory	Proficiency	
Auditory	Pearson Correlation	1	260	
	Sig. (2-tailed)		.221	
	Ν	24	24	
Proficiency	Pearson Correlation	260	1	
	Sig. (2-tailed)	.221		
	Ν	24	60	

Auditory Learning Style and English Proficiency

Based on the table 4.8. the researcher interpreted that there are 60 respondent for either auditory learning style and English proficiency; and the coefficient correlation is -0.260 that it means negative and low correlation. It can be concluded that when auditory learning style increases the participant English proficiency will decrease. *Sig (2-tailed)* value, 0.221 is greater than level of significance (α) 5% then Ho₂ is accepted, and Ha₂ is rejected. It can be concluded that there is no significant correlation between

auditory learning style preference and English proficiency. This means, increases or decreases in auditory learning style preference do not significantly relate to increases or decreases in English proficiency.

Table 4.9

The Analysis Result of the Pearson Product Moment Correlation between **Kinesthetic Learning Style and English Proficiency**

Correlations			
		Kinesthetic	Proficiency
Kinesthetic	Pearson Correlation	1	098
	Sig. (2-tailed)		.458
	Ν	60	60
Proficiency	Pearson Correlation	098	1
	Sig. (2-tailed)	.458	
	Ν	60	60

Correlations

Kinesthetic learning style and English proficiency; and the coefficient correlation is -0.098 that that it means negative correlation. It can be concluded that when kinesthetic learning style increases the participant English proficiency will decrease. Sig (2-tailed) value, 0.458 is greater than level of significance (α) 5% then Ho₃ is accepted, and Ha₃ is rejected. It can be concluded that there is no significant correlation between kinesthetic learning style preference and English proficiency. This means, increases or decreases in kinesthetic learning style do not significantly relate to increases or decreases in English proficiency.

C. Discussion

- The descriptive analysis of the students' perceptual learning style shows that 22 students (36.0%) preferred in visual learning style and the mean score is 35.1000. 18 students (30.0%) preferred in Auditory learning style and the mean score is 36.9333. and 20 students preferred in Kinesthetic learning style and the mean is 35.7000. It means that six semester students majoring in English Educational Program has no major learning preferences since the means of each learning style is fewer than 38. It means the three learning style is is minor preferences since it range in 25-37.
- 2. The descriptive analysis of the TOEFL test score shows that the mean score is 441.2833. This mean score is in the level 420-480. So, it can be said that the English Proficiency of students majoring in English Education Program of STAIN Tulungagung is low intermediate. This level means that students of English Education Program Have the ability to understand simple, low frequency spoken English used in routine academic and social settings whit some characteristics such as Usually understand: simple or routine directions, short simple conversations, and short simple discussions on familiar topics; often identify and distinguish key words and phrases necessary to understand the general meaning; and request the speaker to repeat, slow down, or rephrase speech when failing to comprehend.

- 3. There is correlation between Visual learning style preferences and English proficiency of students at English Educational Program of STAIN Tulungagung since the coefficient correlation is 0.422, it is in the moderate level. The *sig (2-tailed)* value, 0.001 is less than level of significance (α) 5% can be concluded that there is a significant correlation between visual learning styles preference and participant's English proficiency. The hypothesis testing show that Ha₁ is accepted and Ho₁ is rejected.
- 4. There is no significant correlation between auditory learning style preference and English proficiency. *Sig (2-tailed)* value, 0.221 is greater than level of significance (α) 5% then Ho₂ is accepted, and Ha₂ is rejected. Since the coefficient correlation is -0.260 that it means negative and very low correlation. It can be concluded that when auditory learning style increases the participant English proficiency will decrease.
- 5. There is no significant correlation between kinesthetic learning style preference and English proficiency. *Sig (2-tailed)* value, 0.458 is greater than level of significance (α) 5% then Ho₃ is accepted, and Ha₃ is rejected. Since the coefficient correlation is -0.098 that that it means very low negative correlation. It can be concluded that when kinesthetic learning style increases the participant English proficiency will decrease.

These findings corroborate the results of earlier research that higher levels of English proficiency prefer the visual mode (Cherry, 1981; Galbraith & James, 1984; Keefe, 1987; Reid, 1987). Similarly, the more proficient language learner has probably had more exposure to the written word, and therefore, feels comfortable learning visually. In other word, students who have higher English proficiency is more interested in learning using their sight or use this style most of learning. Visual learners may learn by several way for example by reading book, see graph, chart, or by using LCD projector, etc.