

CHAPTER IV

RESEARCH FINDING AND DISCUSSION

This chapter will explain the finding and discussion of the research. The finding presents about what the researcher found during the study, based on the instruments that are questionnaire and documentation. The items that will be presented are presentation of data, hypothesis, and discussion.

A. Presentation of Data

The researcher needs to present the data in order to find out the answer of the research problem. In this study there are two variables of the research, those are self-efficacy and speaking achievement.

1. Students' Self-efficacy

In chapter III has been explained that the students' self-efficacy data are obtained by using the close questionnaire form or multiple choice form. This data is collected as proven with construct validity and reliability that the researcher measure by using SPSS 23 process. The validity and reliability data of the students' self-efficacy as follow:

a. The Result of the Questionnaire

The researcher used questionnaire as an instrument. The data obtained from the questionnaire will be analyzed by using the statistical method. The questionnaire consists of 15 question and 5 alternative answer

namely, SS (Sangatsetuju), S (Setuju), N (Netral), TS (Tidaksetuju), STS (Sangattidaksetuju). The answer of questions is not numeral, so the researcher changed it to be numerical form by giving the score in every alternative answer. It is called as rating score.¹

1. The score answer (SS) is 5
2. The score answer (S) is 4
3. The score answer (N) is 3
4. The score answer (TS) is 2
5. The score answer (TST) is 1

In this case the researcher made the table of the students' score of the questionnaire. It can be seen in the table 4.1

¹Suharsimi Arikunto, *Prosedur Penelitian Suatu Pendekatan Praktek*, 195.

Table 4.1

The Self-efficacy Total Score of Students

NO	NAMA	NOMOR BUTIR ANGKET															Total Score
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	MOH. FARHAN SAFRIADI	4	3	3	4	4	3	3	4	4	4	3	3	4	4	3	53
2	MOHAMMAD KHOLIL NAWAWI	4	5	5	4	5	4	5	4	4	5	5	4	4	5	4	67
3	MOHAMMAD FAKHRI RAMADHANI	4	3	4	4	4	3	4	3	4	4	3	4	4	5	3	56
4	SAMSURI YADI	4	5	4	4	4	3	3	4	3	4	4	4	3	4	4	57
5	RAIHAN FEBRIYANTO	5	5	5	4	5	4	4	5	5	4	4	4	5	5	4	68
6	AHMAD PAHHOL	4	5	4	5	5	4	4	4	4	3	3	4	3	4	4	60
7	MOH. MUHSIN ALATAS	4	4	4	4	4	3	3	3	3	4	3	3	3	4	3	52
8	KHAIRUL EFENDI	3	3	3	4	4	3	3	3	3	3	2	3	4	3	3	47
9	WILDAN RUSYAI	4	4	5	3	4	3	3	4	4	4	4	4	4	5	4	59
10	MOH.AFFAN AMSORI	3	3	3	2	3	2	2	3	3	2	2	3	3	3	3	40

26	EVITA DWI PURWANTI	4	4	3	3	4	3	3	3	4	4	3	3	4	5	4	54
27	AINUN SAHIROH FURQON	3	3	3	2	3	2	2	3	3	2	2	3	3	3	3	40
28	MIFTAHATUR ROHMAH	3	3	4	3	3	2	2	2	3	4	2	2	3	4	3	43
29	MOH. AFDOL	3	3	3	3	4	3	3	3	3	3	4	3	3	4	3	48
30	RENDY ALFARROHMAN	4	4	3	4	4	3	3	4	4	4	4	3	4	5	4	57
31	ALFIN MUZANI	4	3	4	3	3	3	3	4	3	4	3	3	4	4	4	52
32	ACHMAD FIRDAUS TARUNA	4	4	4	4	4	5	4	4	4	4	5	4	5	5	5	65
33	MUHAMMAD FAKHRI AFIF MAHFUD	4	3	4	4	4	3	3	4	4	4	3	4	3	5	4	56
34	RADEN SAMBA	4	3	3	4	3	3	3	3	3	4	4	3	3	4	3	50
35	MOH RIDWAN	3	3	3	4	3	3	3	3	3	3	4	3	3	3	3	47
36	SYAMSUL ARIFIN	4	4	4	4	3	4	4	4	4	3	4	4	4	4	4	58
37	ACH. CHOIRONI CHOLILULLAH	4	4	4	3	4	3	4	4	3	3	4	4	3	4	4	55
38	ALAN WAHYUDI MAULIDAN	3	3	4	3	3	3	3	3	3	3	2	2	3	4	3	45
39	YULIA ROSITA	5	4	5	5	4	4	5	4	4	5	4	5	4	5	5	68
40	SHELLY ALFIANA NOSI	4	4	4	3	3	3	3	3	3	4	3	3	4	4	3	51

41	AYU TRI LESTARI	4	3	4	4	3	4	4	4	5	4	4	3	4	5	4	59
42	TIARA HIDAYATI	5	4	4	3	4	3	3	4	4	4	3	4	4	4	4	57
43	ANNI RUFDAIDAH	5	4	5	4	4	5	5	4	5	4	5	5	4	5	5	69
44	SOLEHAH	3	3	3	3	2	2	2	3	4	3	3	3	4	4	4	46
45	ROJIYATUL MAGHFIROH	4	4	4	4	3	4	4	3	3	4	3	3	3	5	4	55
46	PUJI ANZI EKA SAFITRI	5	4	4	5	4	5	4	5	4	3	4	5	5	5	3	65
47	MAHBUBAH	4	3	4	4	3	3	3	4	3	3	4	4	3	4	4	53
48	SULFIANA SAFITRI	3	3	3	3	3	3	3	4	4	3	3	4	3	4	3	49
49	NUR AIDA	4	3	3	3	3	2	2	3	4	3	2	3	3	3	3	44
50	HAURO' HUWAIDA HANIM	4	4	5	5	4	4	5	5	4	4	5	5	4	5	4	67
51	MARDIYATIN HAKIMAH	4	5	5	4	4	5	5	4	4	5	4	4	4	5	5	67
52	RIYATUL QIBTIYAH	4	4	3	3	3	3	3	4	4	4	4	3	3	4	4	53
53	NOVIANTI EKA PUTRI	4	4	4	4	4	4	4	4	4	3	3	4	3	5	4	58
54	FATIMATUZ ZAHROH	3	4	3	4	3	2	3	3	3	4	3	4	3	4	3	49
55	ZULFATUL LAILI	4	4	5	4	4	4	4	4	5	4	4	4	4	5	4	63

71	SITI HOSNIATIN	3	3	3	2	2	2	2	3	3	3	2	3	3	4	3	41
72	WILDA ALYA SHABRINA	5	4	3	4	5	3	3	2	4	4	3	3	3	5	4	55
73	HIDAYATUL IZZAH	4	4	4	4	4	4	4	4	3	3	4	3	4	4	4	57
74	AMINATUS ZAHROH	3	4	4	4	5	3	3	5	3	4	3	4	5	5	4	59
75	HOIRUN NISA'	3	3	3	3	4	3	3	3	3	2	3	4	3	4	3	47
76	LAILATUL BADRIYAH	3	2	2	3	3	3	2	3	3	3	2	2	3	3	3	40
77	PUTRI KHOIRUN NISAK	4	3	3	4	3	4	4	3	3	3	3	3	3	3	3	49
78	IMALATURRAIHAH	3	4	4	3	4	3	3	3	4	3	3	4	3	3	3	50
79	AYU DIA SYARIFAH	5	4	4	3	3	3	3	4	4	3	3	3	3	4	4	53
80	ULFIYATUL HASANATI	5	4	3	3	4	5	4	5	4	5	4	4	4	5	5	64
81	MAIMUNAH	3	4	3	3	3	3	2	3	3	3	3	4	2	3	3	45
82	SUNARTI	4	4	4	3	5	4	4	3	4	4	5	4	4	5	4	61
83	ERLIN IHSANI	3	2	3	2	3	4	3	2	3	2	2	3	3	3	3	41
84	ONI KHANZA	3	4	3	4	3	4	3	4	4	2	3	4	3	3	4	51
85	SAFIRA AGUSTINA PUTRI	3	3	3	2	3	2	2	3	3	3	2	3	3	4	3	42

Total	319	307	311	301	308	282	277	301	307	292	281	295	298	352	301	4532
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Based on the data above, the result of entire scores of students' self efficacy from the 85 samples are 4532. The highest score is 72 and the lowest score is 38. Santrock divided broadly the level of self-efficacy into two types. Those are high and low self efficacy.²In this research the research used likert scale in questionnaire. It showed if the score of self-efficacy > 60 is very high. If the score > 45 is high and the score < 45 is low.

b. Validity of Questionnaire

The validity is used to make sure the data is valid. The kind of validity which is used by the researcher is construct validity. The researcher used SPSS 23 because it can make the researcher easily to analyze the data of the questionnaire. The result will be explained at the table below:

²John W. Santrock, *Educational Psychology*, 5th ed. (New York: McGraw Hill, 2011), 451.

total scores	Pearson Correlation	.769**	.691**	.758**	.694**	.638**	.794**	.862**	.702**	.668**	.689**	.792**	.717**	.699**	.792**	.791**	1
	Sig. (2-tailed)	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	
	N	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85

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

This is the result after the researcher compare with r table. The r table is 0,217 in the level of significance 5%. It is got by following this formula:

$$df = N-2$$

$$df = 85-2 = 83$$

Because the result is 83 so the r table is 0,217. It is based on the score of correlation coefficient “r” product moment of pearson.³If r count > r table, it means the questionnaire is valid, and if r count < r table, it means the questionnaire is not valid that make the data cannot be used for the next section which is reliability of data.

Table 4.3

The Result of the Comparison of r count and r table

No	Item of questionnaire	Result			Status
		r count	>/</=	r table	
1	1	0,769	>	0,217	Valid
2	2	0,691	>	0,217	Valid
3	3	0,758	>	0,217	Valid
4	4	0,694	>	0,217	Valid
5	5	0,638	>	0,217	Valid
6	6	0,794	>	0,217	Valid
7	7	0,862	>	0,217	Valid

³Anas Sudjiono, *Pengantar Statistik Pendidikan*, 401.

8	8	0,702	>	0,217	Valid
9	9	0,668	>	0,217	Valid
10	10	0,689	>	0,217	Valid
11	11	0,792	>	0,217	Valid
12	12	0,717	>	0,217	Valid
13	13	0,699	>	0,217	Valid
14	14	0,792	>	0,217	Valid
15	15	0,791	>	0,217	Valid

From the data above, it is shown that all the questionnaires are valid because r count is $>$ r table, so the researcher used all the questionnaires.

c. Reliability of Questionnaire

The reliability is used to make sure the obtained data is reliable or not. The researcher used Alpha Cronbach technique by software SPSS 23. The result of research instrument is called reliable if the score is 0,6 (60%). If the score of Alpha Cronbach $>$ 0,6 it means the questionnaire is reliable, meanwhile if the score of Alpha Cronbach $<$ 0,6 it means the questionnaire is not reliable.⁴ Based on the result of accounting from SPSS 23, they are

⁴Syofian Siregar, *Metode Penelitian Kuantitatif: Dilengkapi Dengan Perbandingan Perhitungan Manual Dan SPSS*, 57.

Table 4.4**The Result of AlphaCronbach****Item Statistics**

	Mean	Std. Deviation	N
item score A	3.7529	.68844	85
item score B	3.6118	.69169	85
item score C	3.6588	.68231	85
item score D	3.5412	.73279	85
item score E	3.6235	.73963	85
item score F	3.3176	.80492	85
item score G	3.2588	.87495	85
item score H	3.5412	.69954	85
item score I	3.6118	.65636	85
item score J	3.4353	.76294	85
item score K	3.3059	.85945	85
item score L	3.4706	.73336	85
item score M	3.5059	.62913	85
item score N	4.1529	.74811	85
item score O	3.5412	.68231	85

Reliability Statistics

Cronbach's Alpha	N of Items
.940	15

Based on the result of accounting from SPSS 23, Alpha score is 0,940. It means the researcher could get conclusion that alpha score $0,940 > 0,6$, so the instrument is reliable.

2. The Score of Students

Before testing the hypothesis, the researcher would analyze the data and then the researcher could get the conclusion from this research. The researcher used SPSS 23 to count the result with product moment formula to analyze the data which includes two variables namely the result of questionnaire of students' self-efficacy and the score of speaking achievement which is given by the teacher.

Table 4.5

NO	Name	Score of self-efficacy	Score of speaking achievement
1	MOH. FARHAN SAFRIADI	53	78
2	MOHAMMAD KHOLIL NAWAWI	67	90
3	MOHAMMAD FAKHRI RAMADHANI	56	85
4	SAMSURI YADI	57	80
5	RAIHAN FEBRIYANTO	68	90
6	AHMAD PAHHOL	60	90
7	MOH. MUHSIN ALATAS	52	78
8	KHAIRUL EFENDI	47	78
9	WILDAN RUSYAIIDI	59	88
10	MOH.AFFAN AMSORI	40	70

11	ACHMAD BAIHAQI ANSARI	51	78
12	MUHAMMAD NAUFAL OKTAVIANO	46	75
13	ERVIANA NINGSIH	42	75
14	AMANIA RAMADHANI	63	90
15	NAJWA MUQODDAS	64	90
16	IMROATUS SHOLIHAH	50	80
17	NUZULUL ISNAINI	49	80
18	AMIRAH	51	85
19	LU'LUAL JANNAH	51	78
20	FATIMATUS SHALIHAH	38	70
21	EMILIA HERMAWATI	60	90
22	NUR HASANAH	46	75
23	IDA AFKARINA	41	70
24	SHAFIRA CHAIRUNNISA ROMADHANI	57	85
25	DERI AFRIAN MEIRIKA	45	75
26	EVITA DWI PURWANTI	54	78
27	AINUN SAHIROH FURQON	40	70
28	MIFTAHATUR ROHMAH	43	70
29	MOH. AFDOL	48	75
30	RENDY ALFARROHMAN	57	88
31	ALFIN MUZANI	52	78
32	ACHMAD FIRDAUS TARUNA	65	90
33	MUHAMMAD FAKHRI AFIF MAHFUD	56	85
34	RADEN SAMBA	50	80
35	MOH RIDWAN	47	68
36	SYAMSUL ARIFIN	58	90

37	ACH. CHOIRONI CHOLILULLAH	55	88
38	ALAN WAHYUDI MAULIDAN	45	70
39	YULIA ROSITA	68	90
40	SHELLY ALFIANA NOSI	51	78
41	AYU TRI LESTARI	59	85
42	TIARA HIDAYATI	57	85
43	ANNI RUFDAIDAH	69	90
44	SOLEHAH	46	75
45	ROJIYATUL MAGHFIROH	55	88
46	PUJI ANZI EKA SAFITRI	65	90
47	MAHBUBAH	53	80
48	SULFIANA SAFITRI	49	78
49	NUR AIDA	44	78
50	HAURO' HUWAIDA HANIM	67	88
51	MARDIYATIN HAKIMAH	67	90
52	RIYATUL QIBTIYAH	53	78
53	NOVIANTI EKA PUTRI	58	85
54	FATIMATUZ ZAHROH	49	76
55	ZULFATUL LAILI	63	90
56	FITRIYA YUNITA SARI	47	75
57	JAMALUDDIN	52	80
58	AMAR ARIANTINO	55	80
59	ACHMAT NUR RIFQI FERDINANSYAH	56	85
60	RISKI HIDAYAT	52	76
61	RUDI MUNAWWIR ASHALAHI	58	78

62	MOH. AFIQIH LUBAB	44	66
63	M KHOLILURRAHMAN	45	68
64	ZUBAIR MULYADI	44	68
65	SURYADI	52	85
66	WITRI ALFIAN	64	90
67	AQSHOLANY OZY TRIESHENDY	60	90
68	NAFA NUR FIRDAUSYI	61	90
69	NAOMI FATIKA MILLENIA	59	85
70	RINA MUNAWWAROH ES	72	90
71	SITI HOSNIATIN	41	66
72	WILDA ALYA SHABRINA	55	78
73	HIDAYATUL IZZAH	57	80
74	AMINATUS ZAHROH	59	80
75	HOIRUN NISA'	47	78
76	LAILATUL BADRIYAH	40	68
77	PUTRI KHOIRUN NISAK	49	80
78	IMALATURRAIHAH	50	80
79	AYU DIA SYARIFAH	53	76
80	ULFIYATUL HASANATI	64	90
81	MAIMUNAH	45	70
82	SUNARTI	61	88
83	ERLIN IHSANI	41	69
84	ONI KHANZA	51	85
85	SAFIRA AGUSTINA PUTRI	42	69
Total		4532	6840

Based on the result of students' self efficacy and speaking achievement, it can be known that the entire score of students' self efficacy is 4532. The highest score of students' self efficacy is 72 and the lowest score is 38. Meanwhile, the total score of students' speaking achievement is 7041. The highest score of students' speaking achievement is 90 and the lowest score is 66.

Table 4.6

The Data of Correlation of Self-efficacy and Students' Speaking Achievement

NO	NAMA	X	Y	X ²	Y ²	XY
1	MOH. FARHAN SAFRIADI	53	78	2809	6084	4134
2	MOHAMMAD KHOLIL NAWAWI	67	90	4489	8100	6030
3	MOHAMMAD FAKHRI RAMADHANI	56	85	3136	7225	4760
4	SAMSURI YADI	57	80	3249	6400	4560
5	RAIHAN FEBRIYANTO	68	90	4624	8100	6120
6	AHMAD PAHHOL	60	90	3600	8100	5400
7	MOH. MUHSIN ALATAS	52	78	2704	6084	4056
8	KHAIRUL EFENDI	47	78	2209	6084	3666
9	WILDAN RUSYAI	59	88	3481	7744	5192
10	MOH.AFFAN AMSORI	40	70	1600	4900	2800
11	ACHMAD BAIHAQI ANSARI	51	78	2601	6084	3978
12	MUHAMMAD NAUFAL OKTAVIANO	46	75	2116	5625	3450
13	ERVIANA NINGSIH	42	75	1764	5625	3150
14	AMANIA RAMADHANI	63	90	3969	8100	5670
15	NAJWA MUQODDAS	64	90	4096	8100	5760

16	IMROATUS SHOLIHAH	50	80	2500	6400	4000
17	NUZULUL ISNAINI	49	80	2401	6400	3920
18	AMIRAH	51	85	2601	7225	4335
19	LU'LUAL JANNAH	51	78	2601	6084	3978
20	FATIMATUS SHALIHAH	38	70	1444	4900	2660
21	EMILIA HERMAWATI	60	90	3600	8100	5400
22	NUR HASANAH	46	75	2116	5625	3450
23	IDA AFKARINA	41	70	1681	4900	2870
24	SHAFIRA CHAIRUNNISA ROMADHANI	57	85	3249	7225	4845
25	DERI AFRIAN MEIRIKA	45	75	2025	5625	3375
26	EVITA DWI PURWANTI	54	78	2916	6084	4212
27	AINUN SAHIROH FURQON	40	70	1600	4900	2800
28	MIFTAHATUR ROHMAH	43	70	1849	4900	3010
29	MOH. AFDOL	48	75	2304	5625	3600
30	RENDY ALFARROHMAN	57	88	3249	7744	5016
31	ALFIN MUZANI	52	78	2704	6084	4056
32	ACHMAD FIRDAUS TARUNA	65	90	4225	8100	5850
33	MUHAMMAD FAKHRI AFIF MAHFUD	56	85	3136	7225	4760
34	RADEN SAMBA	50	80	2500	6400	4000
35	MOH RIDWAN	47	68	2209	4624	3196
36	SYAMSUL ARIFIN	58	90	3364	8100	5220
37	ACH. CHOIRONI CHOLILULLAH	55	88	3025	7744	4840
38	ALAN WAHYUDI MAULIDAN	45	70	2025	4900	3150
39	YULIA ROSITA	68	90	4624	8100	6120
40	SHELLY ALFIANA NOSI	51	78	2601	6084	3978

41	AYU TRI LESTARI	59	85	3481	7225	5015
42	TIARA HIDAYATI	57	85	3249	7225	4845
43	ANNI RUFDAIDAH	69	90	4761	8100	6210
44	SOLEHAH	46	75	2116	5625	3450
45	ROJIYATUL MAGHFIROH	55	88	3025	7744	4840
46	PUJI ANZI EKA SAFITRI	65	90	4225	8100	5850
47	MAHBUBAH	53	80	2809	6400	4240
48	SULFIANA SAFITRI	49	78	2401	6084	3822
49	NUR AIDA	44	78	1936	6084	3432
50	HAURO' HUWAIDA HANIM	67	88	4489	7744	5896
51	MARDIYATIN HAKIMAH	67	90	4489	8100	6030
52	RIYATUL QIBTIYAH	53	78	2809	6084	4134
53	NOVIANTI EKA PUTRI	58	85	3364	7225	4930
54	FATIMATUZ ZAHROH	49	76	2401	5776	3724
55	ZULFATUL LAILI	63	90	3969	8100	5670
56	FITRIYA YUNITA SARI	47	75	2209	5625	3525
57	JAMALUDDIN	52	80	2704	6400	4160
58	AMAR ARIANTINO	55	80	3025	6400	4400
59	ACHMAT NUR RIFQI FERDINANSYAH	56	85	3136	7225	4760
60	RISKI HIDAYAT	52	76	2704	5776	3952
61	RUDI MUNAWWIR ASHALAHI	58	78	3364	6084	4524
62	MOH. AFIQIH LUBAB	44	66	1936	4356	2904
63	M KHOLILURRAHMAN	45	68	2025	4624	3060
64	ZUBAIR MULYADI	44	68	1936	4624	2992
65	SURYADI	52	85	2704	7225	4420

66	WITRI ALFIAN	64	90	4096	8100	5760
67	AQSHOLANY OZY TRIESHENDY	60	90	3600	8100	5400
68	NAFA NUR FIRDAUSYI	61	90	3721	8100	5490
69	NAOMI FATIKA MILLENIA	59	85	3481	7225	5015
70	RINA MUNAWWAROH ES	72	90	5184	8100	6480
71	SITI HOSNIATIN	41	66	1681	4356	2706
72	WILDA ALYA SHABRINA	55	78	3025	6084	4290
73	HIDAYATUL IZZAH	57	80	3249	6400	4560
74	AMINATUS ZAHROH	59	80	3481	6400	4720
75	HOIRUN NISA'	47	78	2209	6084	3666
76	LAILATUL BADRIYAH	40	68	1600	4624	2720
77	PUTRI KHOIRUN NISAK	49	80	2401	6400	3920
78	IMALATURRAIHAH	50	80	2500	6400	4000
79	AYU DIA SYARIFAH	53	76	2809	5776	4028
80	ULFIYATUL HASANATI	64	90	4096	8100	5760
81	MAIMUNAH	45	70	2025	4900	3150
82	SUNARTI	61	88	3721	7744	5368
83	ERLIN IHSANI	41	69	1681	4761	2829
84	ONI KHANZA	51	85	2601	7225	4335
85	SAFIRA AGUSTINA PUTRI	42	69	1764	4761	2898
Total		4532	6840	247188	555048	369247

Based on the data of correlation between students' self efficacy and speaking achievement, the result of X^2 is 247188 and the result of Y^2 is 555188. Meanwhile, the total XY is 369247.

Table 4.7
The Result of Pearson Correlation Product Moment
and Statistical Significance

Correlations

		Selfefficacy	Speakingachiev ement
Selfefficacy	Pearson Correlation	1	.898**
	Sig. (2-tailed)		.000
	N	85	85
Speakingachievement	Pearson Correlation	.898**	1
	Sig. (2-tailed)	.000	
	N	85	85

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

Based on the data analysis above, the researcher knew that the result of statistical significance is 0,00.

B. Hypothesis Testing

Form the analysis above, the researcher knew that score of the statistical significance of correlation between self-efficacy and students' speaking achievement is 0,00. After the researcher concluded the score of statistical significance is 0,00 it meant the alternative hypothesis (Ha) is accepted and the null hypothesis (Ho) is rejected. The researcher concluded that there is correlation between self-efficacy and students' speaking achievement at the third semester of TBI IAIN Madura.

C. Discussion

This part will be explained the result of finding to explain whether there is correlation between self-efficacy and students' speaking achievement or not.

Based on the data and statistic counting process, the researcher knew that there is correlation between self-efficacy and students' speaking achievement at the third semester of TBI IAIN Madura. The researcher used SPSS 23 to counting pearson correlation product moment formula to get the score of statistical significance 0,00. This score less than 0,05. The researcher also knew the degree of the correlation from the value of pearson correlation is 0,898 it meant that the correlation between variable X and Y is the highor strong and the direction of correlation is positive.