

## **CHAPTER III**

### **RESEARCH METHOD**

In this chapter, the researcher describes the method that is used to conduct the study. The researcher describes research design, subject of study, data collection, procedure and data analysis

#### **3.1 Research Design**

This study uses descriptive research with a qualitative approach. The goal of qualitative descriptive as (Lambert & Lambert, 2012) is for summarization widely, in daily terms, of particular event that individual or group of individual experiences. (Malgilvy, 2003) add that the goal is to produce clear description and deep understanding of interesting phenomena and natural experience life of people. In a qualitative study, the researcher is the instrument of research, data obtained from asking questions in personal interviews or focus groups, making observations and recording notes, or taking photographs (Magilvy & Thomas, 2009). In this study, researcher describe the critical thinking skill of university student in reading problem.

#### **3.2 Subject**

The subjects of this research are students in Universitas Muhammadiyah Gresik in Thesis and Research Report class. Material in this class involve high order thinking skill (critical thinking). The research subject were 39 student, consisting of 5 male students and 34 female students. The age between 20-24 years old.

#### **3.3 Instrument**

The first PISA survey in 2000 and reading was the major domain in 2000, 2009 and 2018 (OECD, 2019). The differences PISA 2018 with previous is involved basic reading processes, such as fluent feading, literal interpretation, inter sentence integration, extraction of the central themes and drawing inferences, are critical skills for processing complex or multiple texts for specific purposes. So this study uses PISA (Program for International Student Assistance) 2018. Investigating Critical Thinking in Solving Reading Problem, Gadis Dinda Finissha 2021

PISA not only to know student performance in reading, also science and mathematics. PISA try not only to assess whether student can reproduce knowledge but also to check how well the student can understand from what they have learned and implement in unfamiliar setting in and outside of school (OECD, 2010). This study also used interview based on (Facione, 2015) to analyse student critical thinking in every sub-skills. The instrument of the critical thinking test given to the students are presented in table below :

**Table 1 : The Description of Critical Thinking Test**

No.	Critical thinking sub-skills	Indicator	Amount of item
1	Interpretation	Students can understand and express the meaning of the given statement	1
2	Analysis	Students can analyze the given arguments	1
3	Inference	Students can provide inferences with logical reasons	1
4	Evaluation	Students can assess the given claim	1
5	Explanation	Students can explain their answer	1
6	Self-Regulation	Students can find the mistake in solution of the problem	1
Total items			6

Adapted from (Basri, Purwanto, As'ari, & Sisworo, 2019)

### 3.4 Data Collection

Data collection on the subject of the study is sequently, one by one. Researcher share the question PISA reading section in online application. The answer will send back on online application for analyzing by researcher. After that researcher will interview all students to know how the process of critical thinking. All subject activities at solving reading problems were recorded.

### 3.5 Procedure

Researcher conduct data collection for 2 meetings and using PISA reading section 2018. Each questions has 1 question with different level and the type is Investigating Critical Thinking in Solving Reading Problem, Gadis Dinda Finissha 2021

multiple choice & open response. The reading text has different topic and different aspect depend on goal to assess. Each question contain 1 sub skill of critical thinking that researcher want to know interpretation, analysis, inference, evaluation, explanation and self regulation by (Facione P. A., 1990). So, total of question is 6 as the sub skills. This study involve 39 university student in 7<sup>TH</sup> semester aged between 20-24 years old. The test should be finished in 50 minutes. Then the student answer assessed based on the rubric made by researcher. In addition, interview will conduct gradually with student for 30 minutes after student answer the question (Basri, Purwanto, As'ari, & Sisworo, 2019)

### **3.6 Data Analysis**

Based on (Basri, Purwanto, As'ari, & Sisworo, 2019) data analysis conducted through 3 stages :

- (1) Data from the test and interview result were reduced by way of choosing essential information and eliminating useless data,
- (2) The additional in several test and interview result will describe in six part :
  - a. Student critical thinking skills in the interpretation sub skills
  - b. Student critical thinking skills in the analysis sub skills
  - c. Student critical thinking skills in the evaluation sub skills
  - d. Student critical thinking skills in the inference sub skills
  - e. Student critical thinking skills in the explanation sub skills
  - f. Student critical thinking skills in the self-regulation sub skills
- (3) Conclude the data findings