## **CHAPTER III**

## RESEARCH METHODOLOGY

The description of the research methodology is employed in this study. This chapter discusses the research design, research subject, data collection, instrument to collect the data, and data analysis.

# A. Research Design

According to Best, there are three types of educational research in which each study falls under one or the combination of the three types. The first is historical research which describes "what it was". The process involves investigating, recording, analyzing and interpreting the events of the past for the purpose of discovering the past, understanding the present and to a limit extent, in anticipating future. The second is descriptive research which describes "what it is". It involves the description, recording, analysis and interpretation of condition that exists. It involves some types of comparison or contrast and attempts to discover relationship between existing non-manipulated variables. The third type is experimental research which describes what will be if certain variables are carefully controlled or manipulated. The focus is on variable relationship. In this type of research, there are experimental and control groups.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> J. W. Best, *Research in Education*, (New Jersey: Prentice Hall, Inc., 1981), Forth Edition, p.

Best moreover divides descriptive research into four parts: document or content analysis study, case study, ethnographic study, and explanatory observation study. Document or content analysis study is the study which is concerned with the explanation of the status of some phenomenon at particular time. Case study is the way of organizing social data for the purpose of viewing social reality. Ethnographic study is the process of collecting data on many variables of an extended period of time, in naturalistic setting. Explanatory observation study is the study which seeks to find answers to question through the analysis of variable relationship.<sup>2</sup>

From the statements above, it can be concluded that the study is categorized as descriptive content analysis since the study describes the readability of the textbook published by Yudhistira. It means that what will be described in the study is the condition that exists without giving any treatment.

# B. Research Subject

The subject of this study is English textbook entitled *Linked to the World 1 English for Senior High School* Grade X first and second semester published by Yudhistira. As mentioned above, this textbook is mostly used in Senior High School and it is based on 2006 curriculum. It consists of speaking skill, writing skill, listening skill, and reading skill, and linked to grammar.

<sup>&</sup>lt;sup>2</sup> Ibid., p. 106

In this study, the writer focused on the reading skill that is broadened to seven units of reading texts in this English book. And the reading text from the first until the seventh unit are: unit 1 of the reading text is about *An Unforgettable Experience*, unit 2 is *John's English Teacher*, unit 3 is *How to Develop the Tourism in Indonesia*, unit 4 is *Steve's Favorite Sport*, unit 5 is *Life in Ancient Rome*, unit 6 is *Healthy Life*, and unit 7 is about *Rossi Sweeps to Australian GP Victoria*. There were no population and sample of the study because all of reading texts in the book are used as the research subject.

## C. Data Collection

The way to collect the data in this study was by using documentation, and the reading texts available on English textbook entitled *Linked to the World 1 English for Senior High School* Grade X first and second semester published by Yudhistira were the document that was employed in this study. And the procedure to collect the data was:

- 1. Determine the English textbook for Senior High School
- 2. Identify the texts of reading texts on the *Linked to the World 1 English for*Senior High School Grade X first and second semester published by

  Yudhistira textbook
- 3. Read the text of *Linked to the World 1 English for Senior High School* Grade
  X first and second semester published by Yudhistira textbook
- 4. Count the number of sentences, words, and syllables in each text.

#### D. Instrument to Collect the Data

The instrument of the research is equipment that is used by the researcher to collect the data, in which it is important to get the accurate data.<sup>3</sup> It means that an instrument is some tools that are used to get data which is done by analyzing or observing certain object to collect the appropriate data.

In this study, the writer employed a documentation method that was used to analyze the document, and the document itself is the sources that are taken from written forms such as: books, newspaper, articles, magazines, regulations, etc.<sup>4</sup> The document in this research was English textbook entitled *Linked to the World 1 English for Senior High School* Grade X first and second semester published by Yudhistira, and this study analyzed the readability level of reading text in the English book.

To collect the data, the study used one kind of instrument, i.e. Flesch readability formula as a measurement device. The writer employed the Flesch readability formula as the way to measurement, because this formula is mostly used, simple, and has easy step or direction to analyze. And the writer hopes this analysis will be useful as a direction for the teacher and reading text developer to measure reading texts based on the readability.

 $<sup>^3</sup>$  Suharsimi Arikunto, <br/> Prosedur Penelitian, (Yogyakarta: Rineka Cipta, 2006), Edisi Revisi VI, p. 160

<sup>&</sup>lt;sup>4</sup> Ibid., p.158

Besides, the formula also analyzed the students' level, and the level would be presented by the list of readability table. Of course the analysis of readability text can be measured directly and not too long to investigate the result.

# E. Data Analysis

In this study, the writer used Flesch readability formula (Reading Ease Formula) because this formula is the easiest one to measure the readability of reading texts. To make easier to analyze the English text, the writer conducted four steps in analyzing the data, as follows:

- 1. Analyzing and counting the sentences, words and syllables in each text of the reading text
- 2. Measuring the readability of each text based on the Flesch readability formula (Reading Ease formula)
- 3. Describing and giving further explanation related to the readability
- 4. Determining the grades of each chapter of reading texts by comparing the results of the scores to the other criteria as shown in the readability table, which ones are relevant to Senior High School level.