

CHAPTER 3

RESEARCH METHODOLOGY

The data is the material that will be processed in the form of numbers of words and everything that can be stored in memory according to a certain format, to facilitate the making of this project, we need valid data and it have to accordance with required to expedite the process in the fluency of this project. One example of the necessary data : To acquire KBBI, we can visit on this website : <http://www.priawadi.com/2012/11/download-database-kata-dasar-bahasa.html> (search results) a Dictionary consists of 28ribu words.

User inputing keywords to find the suggestion words from word inputed, the input keywords are stored in a variable that will be used as a comparison to Brute Force Algorithm process. The next step will be called a Stored Procedure to call the database containing a Kamus Besar Bahasa Indonesia (KBBI) with a total of 28 thousand words. With the keywords from user input that has been stored, the Brute Force Algorithm will do some checking keywords with an existing database.

There are many steps that Brute Force Algorithm doing to match the string:

1. Start the Brute Force Algorithm matching the pattern at the beginning of the text
2. From left to right, this algorithm would match character per character in pattern with a corresponding text character, until one of the following conditions are met :
 - a) Characters in pattern and in a text comparison does not match (mismatch).

- b) All characters in the pattern match, then the algorithm will notify discovery at this position.
- c) Algorithm then continues to shift the pattern of the one to the right, and then repeat step 2 until the pattern is at the end of the text.

This is an example image of the workings process of the Brute Force Algorithm :

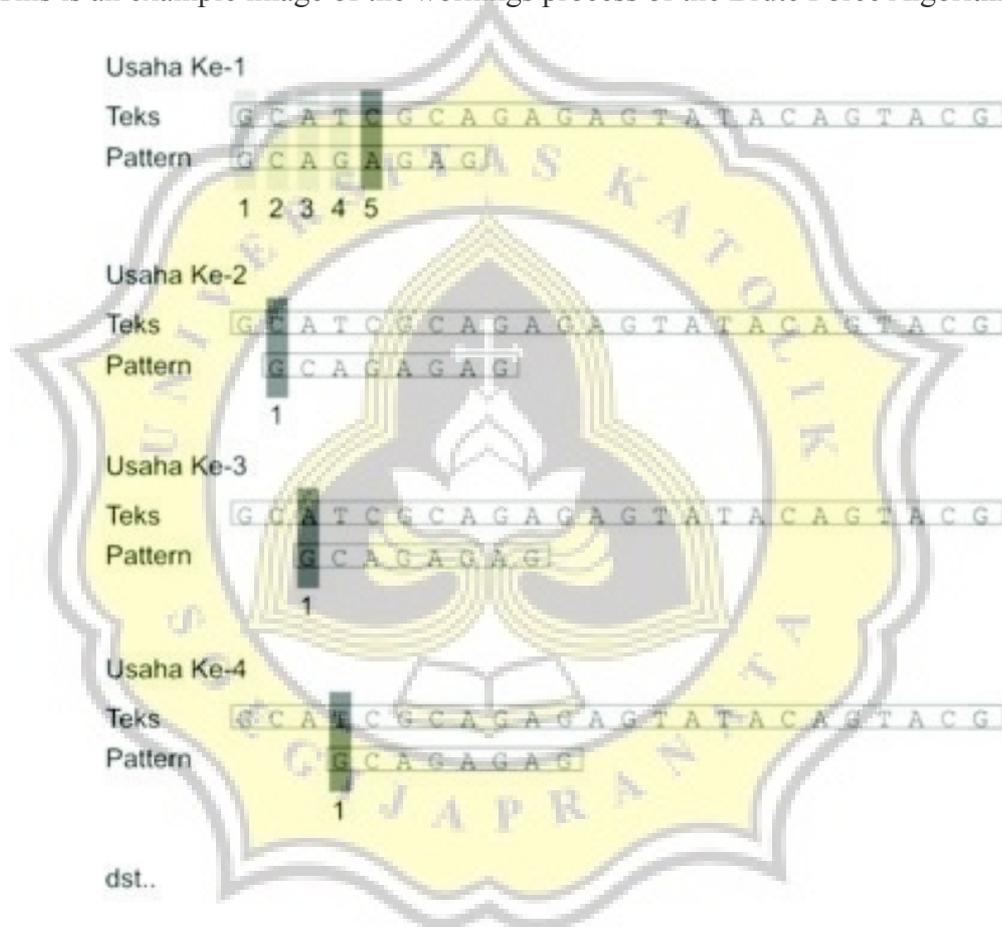


Illustration 3.1 Process Brute Force Algorithm