

CHAPTER 3

RESEARCH METHODOLOGY

There was some step following my research

1. Reading journals as reference makes QR code in existing journals.

Reading journals as reference makes QR code with its own pattern. in existing journals using only image processing as a reconstruct of QR form or the image becomes data stored into QR and there are many who use the QR dictionary directly do not create their own formulas for generator generation QR. and some other journals only explain what the QR

2. Learning How QR code Library work.

Learning how the QR reading some pattern and what type of data the QR code can contain file and type data.

3. Learn the Arithmetic Formula. The basic formula for arithmetic is like this:

$$s_n = \frac{n}{2} [2a + (n - 1)b]$$

Illustration 3.1: GENERAL ARITHMATIC FORMULA

s_n = is the sum of the arithmetic array

n = is how long the array

b = the different the number and next number

a = value of the first arithmetic array

4. Create the basic library using Okta as basic library for QR library

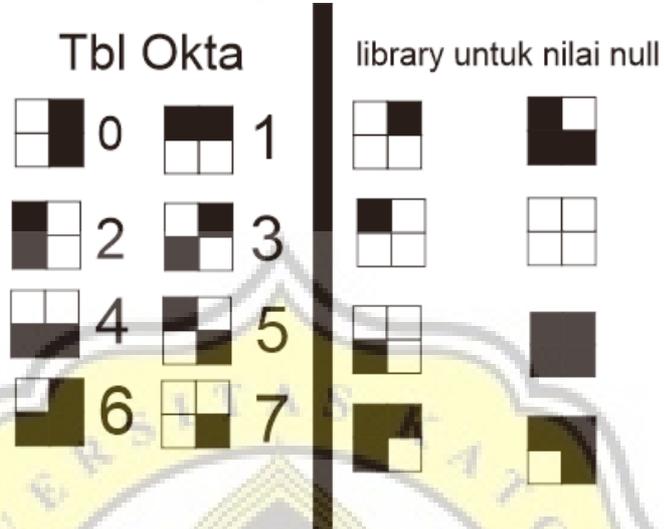


Illustration 3.2: Library

basic Qr didnt use okta for base creating and reading for create the file more unique. Okta is one choice for thats creating thats why needed creating library for base reading and creating QR

5. Store Temporary data in array using Java language Programing
create program QR using java and using array as storage for processing data reading and creating QR
6. Testing Program inputing data for create and reader QR
testing inputing data and see the output file and debugging error for each
7. Create Report