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### WORKSHEET 12

School: Ba Sangam College  
 Subject: Computer Studies

Year / Level: 12  
 Name of Student: \_\_\_\_\_

<b>Strand</b>	3 – Programming
<b>Sub strand</b>	3.1 Steps involved in programming
<b>Content Learning Outcome</b>	Describe six steps involved in programming

## Chapter 5 - Programming

### *What is a Program?*

A program is a set of instructions for the computer to follow to accomplish the task of processing data into information.

### *What is Programming?*

Programming (also known as Software Development) is a six (6) step procedure for creating a list of instructions for the computer to follow (program).

Only one of those processes consists of typing (keying) statements into the computer. The six steps are as follows:

1. Program Specification
2. Program Design
3. Program Code
4. Program test
5. Program documentation
6. Program maintenance

### *Software Development*

#### **Step 1 Program Specification**

Program Specification is also called *Program Definition or Program Analysis*. In this step, the programmer has to determine the objectives, outputs, inputs, processing requirements and document them. It requires that the programmer – or you, the end user – to complete these tasks procedures. They are:

1. Determining the programs objectives – the first step is to clearly define the problem to solve in the form of program objectives.
2. Determining the desired output – next focus on the desired output considering the required inputs.
3. Determining the input data required – once the outputs are defined, determine the

necessary input data and the source of the data.

- Determining the processing requirements – next, determine the steps necessary to use input to produce output.

- Documenting the program specifications – the final task is to create a specifications document to record this step's program objectives, outputs, inputs, and processing requirements.

**ACTIVITY**

- 1. Differentiate between a program and programming (2 marks)**

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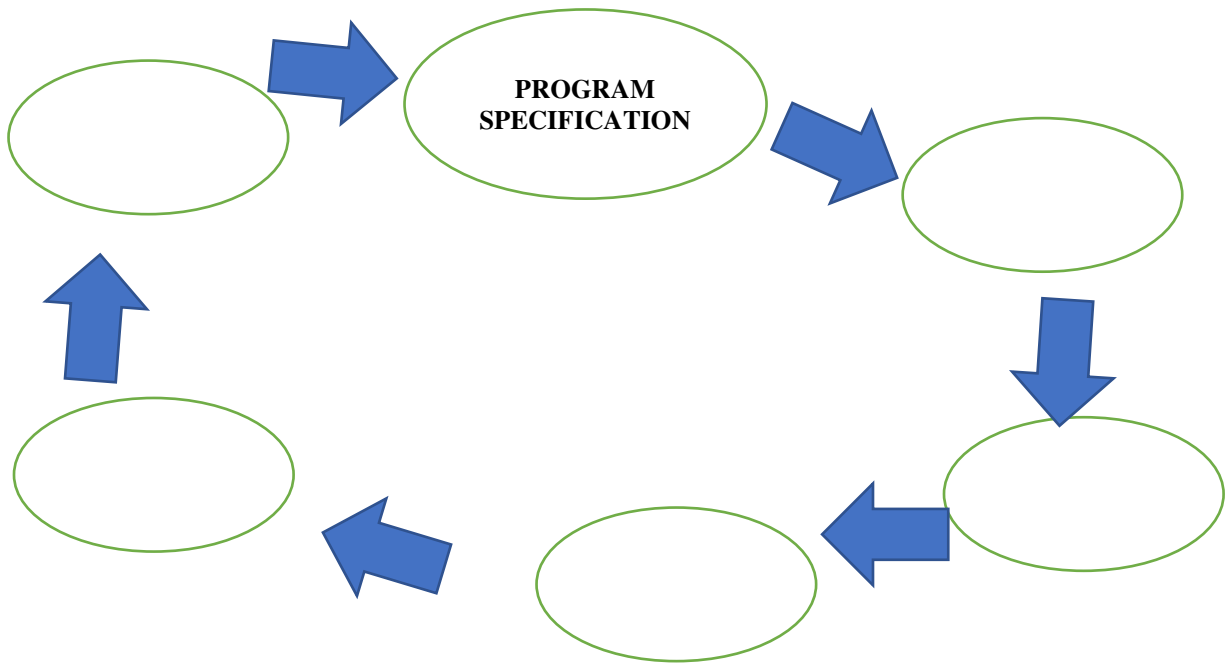
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- 2. Complete the six steps of programming as shown in the cycle below (5 marks)**



- 3. Discuss program specification (3 marks)**

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