**Unit 11.1 : Programming Basics**

Weekly\_Test 1 (16 Jan 2023 to 22 Jan 2023)

1. Explain two differences between a constant and a variable

A constant is a named value that cannot change during the execution of a program.A variables and constants should be declared before use.Constants will always be assigned a value when declared.

[4 Marks].

1. Write a Pseudo Code to request user to enter the length and width of a rectangle and calculate it’s area and perimeter. Your pseudo code should also check that the length and width entered is a positive number.

[6 Marks]

**DECLARE length : REAL**

**DECLARE width : REAL**

**DECLARE area : REAL**

**DECLARE perimeter : REAL**

**OUTPUT (“Please enter the length of a rectangle”)**

**INPUT length**

**WHILE length > 0 DO**

**INPUT (“Please enter a positive number”)**

**OUTPUT length**

**ENDWHILE**

**OUTPUT (“Please enter the width of a rectangle ”)**

**INPUT width**

**WHILE width>0 DO**

**INPUT (“Please enter a positive number”)**

**OUTPUT width**

**ENDWHILE**

**area = length \* width**

**perimeter = 2\*length + 2\*width**

**OUTPUT “area is”, area**

**OUTPUT “perimeter is”,perimeter**