

## Flowcharts & Pseudocodes (Assignment Questions)

**Question 1 :** Flowchart & Pseudocode to calculate the AREA of a rectangle.

*Input : length & width (sides)*

*Output : length\*width (area)*

**Question 2 :** Flowchart & Pseudocode to calculate the AVERAGE of 3 Numbers.

*Input : a, b, c*

*Output :  $(a+b+c)/3$*

**Question 3 :** Flowchart & Pseudocode to calculate the LARGEST of 3 Numbers.

*Input : a, b, c*

*Output : Largest of a, b, c*

**Question 4 :** Flowchart & Pseudocode to print if a number N is EVEN or ODD.

*Input : n*

*Output: Even or Odd*

[ Hint : A number is even if it gives a remainder 0 when divided by 2.

In programming we can directly calculate the remainder using the "%" operator.

Eg-  $20\%2$  is read as "20 remainder 2", which is equal to 0.

And to check if a number is even we write,  $\text{num \% } 2 == 0$

Notice the double ==. We use ==, instead of a single = in programming to check equality. ]

**Question 5 :** Flowchart & Pseudocode to print all multiples of 3 from 10 to 50.

*Input : none*

*Output: 12 15 18 21 24 27 30 33 36 39 42 45 48*

[Hint: To check if a number is a multiple of 3 we write,  $\text{num \% } 3 == 0$ ]