

## Activity 03

- Write Java programs for the following questions.

- 01) Write a Java Program to input a number and check whether the number is positive, negative or equal to zero.
- 02) Write a Java Program to input a number and check whether the number is even or odd.
- 03) Write a Java Program to enter a number and;
  - If the number>60 then print "I like Ice Cream."
  - If the number>30 then print "I like Chocolate."
  - If the number>20 then print "I like Apple."
  - Otherwise print "I do not like anything."
- 04) Write a Java Program to check the eligibility of a student to sit for the final exam.  
(The student should have *at least 80% attendance* **AND** *at least 40% marks* for the continuous assessments.)
- 05) Write a Java Program to input a letter and check whether it is a vowel or a consonant using a switch statement.
- 06) Write a Java Program to display the following comments for the grades entered by the user.

Grade	Comment
A	Excellent
B	Well Done
C	Good
D	You Pass
F	Better Try Again
Other	Invalid Grade

07) Write a Java Program to display the following classes for the **GPA** (Grade Point Average) value entered by the user.

<b>GPA</b>	<b>Class</b>
3.7 or above	First Class
3.3 or above	Second Upper
3.0 or above	Second Lower
Below 3.0	General

08) Using a loop statement (while, do while) get the following outputs.

- Display the numbers from 1 to 10 line by line
- Display the numbers from 10 to 1 line by line
- Display the sequence 1,3,5,7,9 line by line
- Display all the odd numbers between 1 to 100.
- Display all the even numbers between 1 to 100.
- Display all the numbers that are multiple of 3 between 1 to 100.
- Display the addition of all the numbers from 1 to 10.

09) Using a loop statement (for) get the following outputs.

- Addition of all the numbers from 1 to 10.
- Multiplication of all the numbers from 1 to 10.
- Number of even numbers from 1 to 50.
- Number of odd numbers from 1 to 50.

10) Using a Using a loop statement (for) get the following outputs.

1	1	*	*****	*
22	12	**	****	***
333	123	***	***	*****
4444	1234	****	**	*****
55555	12345	*****	*	*****