Activity 05

- Write Java programs for the following questions.

01) Write a Java program to find the largest value and the smallest value among two numbers using functions.

02) Write a Java program to check whether a number is positive, negative or equal to zero using functions.

03) Write a Java program to check whether a number is even or odd using functions.

04) Write a Java program to find diameter, circumference and area of a circle using functions.

06) Write a Java program to check the eligibility of a student to sit for the final exam using functions.

07) Write a Java program to divide an integer by another integer and find the quotient and remainder using functions.

08) Write a Java program to input an operator like 'C' or 'F' and a temperature value. If the user enters 'C' the entered temperature value should be converted to Celsius. If the user enters 'F' then the entered temperature value should be converted to Fahrenheit. Use two different functions for converting the temperature into F or C. $F = (C \times 9/5) + 32$

09) Write a Java program to input two numbers and an operator like '+', '-', '*', '/'. Write four different functions to return the addition, subtraction, multiplication and division of the two numbers. Depending on the operator call the relevant function and display the result.

10) Write a Java program to enter marks for Quiz 01, Quiz 02, Spot Test 01, Spot Test 02 and Assignment 01. Calculate the average of the marks using a function. Find the grade according to the average marks using another function. Refer the following table when finding the grade.

Average >= 75	A
Average >= 65	B
Average >= 55	C
Average >= 45	D
Average >= 35	E
Average < 35	F

11) Write a Java program to find the sum of first 'n' natural numbers using a recursive function.

12) Write a Java program to calculate the power of a number using recursion.