

Activity 02

- Write Java programs for the following questions.

- 01) Write a Java Program to input two integer values and display the addition, subtraction, multiplication, division, remainder, largest value and the smallest value (use the ternary operator) of the two integers.
- 02) Write a Java Program to input the radius of a circle and display the diameter, circumference and the area.
- 03) Write a Java Program to input the length and the height of a triangle as float values and display the area.
- 04) Write a Java Program to input two integers and divide first integer by second integer and find the quotient and the remainder.
- 05) Write a Java Program to input your full name, index number, age, current GPA and display them in separate lines.
- 06) Write a Java Program to input a character and display the ASCII value of that character.
- 07) Write a Java Program to enter a "two digit" number;
 - a. Display the sum of two digits
 - b. Display the reversed number
- 08) Write Java Program to input temperature in Celsius and display its value in Fahrenheit.
Use the formula; $F = (C \times 9/5) + 32$

- 09) Write a Java Program to convert a given number of seconds into hours, minutes and seconds.

For example, if 3860 seconds are given, the output must be:

Hours : 01

Minutes : 04

Seconds : 20

- 10) Write a Java Program to convert the string, "I like to develop programs using the Java Programming Language." into;
- Uppercase
 - Lowercase
- 11) Write a Java Program to input a string;
- Display the length
 - Display the index of the first occurrence of character 'a'
 - Display the index of the last occurrence of character 'a'
- 12) Write a Java Program to input two strings. Display true/false for following test conditions;
- The two strings are equal (Considering the case)
 - The two strings are equal (Without considering the case)
 - First string starts with character 'a'
 - Second string ends with character 'a'
 - First string contains "ou"
 - Second string contains "au"
- 13) Write a Java Program to input the details of a laptop (manufacturer's name, price, model, warranty period, colour, display size, number of USB ports) and display those information using a formatted string.
- 14) Write a Java Program with a default constructor including constructor variables initialized with values for name, age, height, gender (m/f) of a student. Create a student object and display the details of the student.

- 15) Write a Java Program including a user-defined constructor with the arguments to initialize the name, age, height, gender (m/f) of a student. Create five different student objects and store different data for the properties of those objects using constructor calls.