LAB 02 TASKS

Note: Follow the submission instructions and template.

Basic Datatypes & Printing in Java

1. Write a Java program to print an int, a double and a char on screen.

2. Write a program to print the area of a rectangle of sides **2** and **3** units respectively.

3. Write a program to print the product of the numbers **7.2** and **6**.

4. Print the ASCII value of the character 'b'.

Type Casting

5. Write a program to assign a value of **100.235** to a double variable and then convert it to int.

6. Write a program to add **2** to the ASCII value of the character **'c'** and print the equivalent character.

7. Write a program to add an integer variable having value **5** and a double variable having value **6.5**.

8. Write a program to find the square of the number **2.9**.

Operators + Input by user + Decision Making Construct (if-else)

9. Write a program to take two integer inputs from user and print sum and product of them.

10. Take two integer inputs from user. First calculate the sum of two then product of two. Finally, print the sum and product of both obtained results.

11. Ask user to give two double input for length and breadth of a rectangle and print area type casted to int.

12. Take name, roll number and field of interest from user and print in the format below :

Hey, my name is xyz and my roll number is xyz. My field of interest are xyz.

13. Take side of a square from user and print area and perimeter of it.

14. Take two different string input and print them in same line.
E.g.:
INPUT: Hello
World
OUTPUT: HelloWorld

15. Take 3 inputs from user and check whether:
    All are equal
    Any of two are equal
Hint: (use **&&** and **||**)

16. MAJU has following rules for grading system of the PHD students:
        a. Below 71 - F
        b. 81 to 85 – B+
        c. 86 to 89 – A-
        d. 90 to 100 – A

    Ask user to enter marks and print the corresponding grade.

17. Write a program to print absolute vlaue of a number entered by user.
E.g.
INPUT: 1   OUTPUT: 1
INPUT: -1   OUTPUT: 1

18. A student will not be allowed to sit in exam if his/her attendence is less than 75%.
    Take following input from user
      -Number of classes held
      -Number of classes attended.

And print
  -percentage of class attended
  -Is student is allowed to sit in exam or not.

19. Modify the above question to allow student to sit if he/she has medical cause. Ask user if he/she has medical cause or not ('Y' or 'N') and print accordingly.

20. Print 'Working Day' for all the days from Monday to Friday and print 'Holiday' for the days Saturday & Saturday respectively. (Using switch case)

Loops (using any loop)

21. Print ASCII values of upper case alphabets and their equivalent characters. (ASCII value from 65 to 90).

22. Take integer inputs from user until he/she presses q (Ask to press q to quit after every integer input). Print average and product of all numbers.