OOP LAB_03 BS (CS/SE) Lab #03

Objective:

The objective of this lab is to familiarize students with Control Statements in java

Task 1:

Write some code that prints the even numbers from 2 to 20 (inclusive) using a for loop. Can you do this in two different ways?

Task 2:

Squares

Write a program that displays the numbers from 1 to 10 and their squares.

| e.g. | | |
|------|---|-----|
| 1 | > | 1 |
| 2 | > | 4 |
| 3 | > | 9 |
| 4 | > | 16 |
| 5 | > | 25 |
| 6 | > | 36 |
| 7 | > | 49 |
| 8 | > | 64 |
| 9 | > | 81 |
| 10 | > | 100 |
| | | |

Task 3:

Write java code to print multiplication table of any number that the user has input

Task 4:

Write java code to test how many even numbers are present in n numbers, and also display their total.

Task 5:

Write java program to compute factorial of a given number.

Task 6:

Use nested loop to generate output like shown below:



Task 7:

Rock Around The Clock

Write a program that simulates the hours and minutes passing on a clock.

e.g. 01:00 01:01 01:02 01:03 01:04 01:05 01:06 01:07 01:08 01:09 01:10 01:11 01:12 01:13 01:14 03:55 03:56

03:57

Task 8:

Activities at Lake LazyDays As activity directory at Lake LazyDays Resort, it is your job to suggest appropriate activities to guests based on the weather:

temp >= 80: swimming 60 <= temp < 80 tennis 40 <= temp < 60 golf temp < 40 skiing

- 1. Write a program that prompts the user for a temperature, then prints out the activity appropriate for that temperature. Use a cascading if, and be sure that your conditions are no more complex than necessary.
- 2. Modify your program so that if the temperature is greater than 95 or less than 20, it prints "Visit our shops!". (Hint: Use a boolean operator in your condition.) For other temperatures print the activity as before.

Task 9: Do this task using both while and do while loops

Test Average problem:

- As long as there are more grades, add them to the total
- Divide the total by the number of courses (each grade is a course)
- Print the corresponding letter grade
- Stop when the user enters a negative grade

Task 10:

Use switch statement to find out maximum between two Numbers

Task 11:

Write a program to check wether an alphabet is consonant or vowel using switch case statements

Task 12:

- A. Create array for students marks, Grades and names
- B. Take input of each student's name, marks and grade from the user and store information in array
- C. Display the Result in a Tabular form
- D. Use for each to Do the C part again