## Assignment2 (Using both If-else as well as ternary operator ?:)

- WAP to find out whether a Number is Even/Odd Number
- WAP to find out whether a Year is Leap Year or not
- WAP to find out whether a person is Adult or Not
- WAP to swap 2 numbers using 3 variables
- WAP to swap 2 numbers using 2 variables


## Assignment4 (Using Switch Case)

- WAP to ask to print Week day based on number (i.e. 7 for Sunday, 6 for Saturday)

○ WAP to ask to print Month based on number (i.e. 1 for Jan, 2 for Feb) as well as number of days in that month

## Assignment5 (Using Loop \& JAR concept of JAVA)

WAP to print all Odd Number between 1 to 100
WAP to find out whether a number is Prime OR Composite
WAP to calculate Factorial of a number
Bundle all above programs in a package "g2it.math" in a JAR file "LogicalMath.jar"

- Create a Client program in a separate package which use "LogicalMath.jar" file \& provide below Screen-

1. Print Odd Number
2. Find out Prime or Composite Number
3. Find out Factorial Number
4. Exit

Enter an option (1/2 / 3) -
Do you want to Continue ( $\mathrm{Y} / \mathrm{N}$ )-

## Assignment6 (Using Command line Argument via both Command prompt \& Eclipse)

- WAP where user can provide multiple numbers \& output should be in tabulated for given below-



## Assignment7-

- WAP to find out average age of 10 users.
- WAP to Find the Second Largest \& Smallest Elements in an Array_
- Write a Program to Cyclically Permute the Elements of an Array
- Write a Program to Read an Array and Search for an Element
- Write Program to accept Sorted Array and do Search using Binary Search (Using Recursion)
- WAP which take input inside $5 * 5$ matrix array \& print sum of all element of Left \& right diagonal elements.

O WAP to identify common elements or numbers between two given arrays

- WAP to find out the duplicate numbers in an Array.
- WAP to sort an array using Bubble + Insertion + Selection sort.
- WAP to create a 10 JobSeeker along with Address. Print data in tablulated format for all 10 jobSeekers (id ---- name ----- city ---------- country)
- WAP to find Largest Two Salary holder in a given 5 employees (id, salary)
- WAP to take user input for various languages \& its version \& print this double dimensional array in sorted order (First via Langauge \& then its version). For ex-

| Java | 5.0 |
| :--- | :--- |
| Java | 9.0 |
| C++ | 2.0 |
| Java | 8.0 |

## Assignment8 -

Determine the output:
a. byte $b=10$;
b=b+10;
System.out.println("The value of bis " + b);
b. byte $b=10$;
b+=10;
System.out.println("The value of $b$ is " +b );
c. char c = 3;
int a $=65$;
char d = a;
System.out.println("The value of $d$ is " +d );
d. float $\mathrm{f}=1.3$;

System.out.println("The value of $f$ is " +f );
e. float $\mathrm{f}=1.3 \mathrm{f}$;

System.out.println("The value of $f$ is " + f);
f. float $\mathrm{f}=6 / 2$;

System.out.println("The value of f is " +f );
g. float $f=6.0 / 2.0$;

System.out.println("The value of $f$ is " +f );
h. byte b;
final int a = 10;
$\mathrm{b}=\mathrm{a}$;
System.out.println("The value of $b$ is " +b );
i. byte b;
final int $\mathrm{a}=10$;
final int $\mathrm{x}=\mathrm{a}$;
b = x ;
System.out.println("The value of $b$ is " +b );
j. int $y$;
final int $z=y$;
b = z;
System.out.println("The value of b is " + b);
k. public class precedence\{
public static void main(String[] args) \{
int $\mathrm{i}=0$;
i=i++;
$\mathrm{i}=\mathrm{i}++$;
$\mathrm{i}=\mathrm{i}++$;
$\mathrm{i}=\mathrm{i}++$;
System.out.println("The value of $i$ is " $+i$ ); int arr []= new int [5]; int index=0; arr [index] $=$ index $=3$; System.out.println("The value of first element is " + arr[0]); System.out.printIn("The value of fourth element is " + arr[3]);
\}
\}
I. if $(-0.0==0.0)\{$

System.out.println("-0.0==0.0");
\} else \{
System.out.printIn("-0.0!=0.0");
\}

## Assignment 9 -

- WAP to print all Odd Number between 1 to 100 using single line of Java code
- 1
- 1

12
123
1234
12345

- 54321

5432
5432
54

## 5

- 123454321

12344321
123321
$12 \quad 21$
$1 \quad 1$

○









## Assignment 10-

- Write a Number Convertor Java program inside a package which will ask user to enter a number. Once User enters any number then program will ask a Menu:
- To Binary
- To Hexa decimal
- To Octal
- Write a program for a matchstick game being played between the computer and a user. Your program should ensure that the computer always wins. Rules for the game are as follows.
- There are total 21 matchsticks.
- You can select either1, 2, 3 or 4 matchsticks at a time.
- After the person picks Computer does its picking.
- Whoever is forced to pick up the last matchstick loses the game.
- Assignment 11-

Generate Fibonacci series upto n....
$1,1,2,3,5,8,13 \ldots$

- Assignment 12 (String based logical questions)-

1---Frequency of each character in String.
2---Find duplicate charcter in string
3--- print non duplicate character in string.
4--- reverse string
5---Word reverse in string
Eg core java
reoc avaj
6---palindrome
7-Longest palindrome Substring in String
8---Find the substring in the String
9---String permutation
10---String Anagram

Combination of any character of cat like act,tac etc,

