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

- WAP to find out whether a Number is Even/Odd Number
- o WAP to find out whether a Year is Leap Year or not
- o 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)

- o 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
- o WAP to find out whether a number is Prime OR Composite
- WAP to calculate Factorial of a number
- o 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 (Y/N)-

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

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

User Input Parameter	Sum total of paramete	r	Is Prime?	Is Peculiar?	Reverse	
121	4	. !	Yes	Yes	121	I
123	6		No	No	321	I

Assignment7-

- o 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.
- 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 b is " + 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 f = 1.3;
   System.out.println("The value of f is " + f);
e. float f = 1.3f;
   System.out.println("The value of f is " + f);
f. float 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;
   b=a:
   System.out.println("The value of b is " + b);
i. byte b;
   final int a = 10;
   final int x = 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 i = 0;
            i=i++;
            i=i++;
            i=i++;
            i=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.println("The value of fourth element is " + arr[3]);
      }
I. if(-0.0==0.0){
      System.out.println("-0.0==0.0");
   } else {
      System.out.println("-0.0!=0.0");
```

Assignment 9 -

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

```
22
333
```

```
4444
55555
1
12
123
1234
12345
54321
5432
5432
54
5
123454321
1234 4321
123
      321
12
       21
1
        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...

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

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