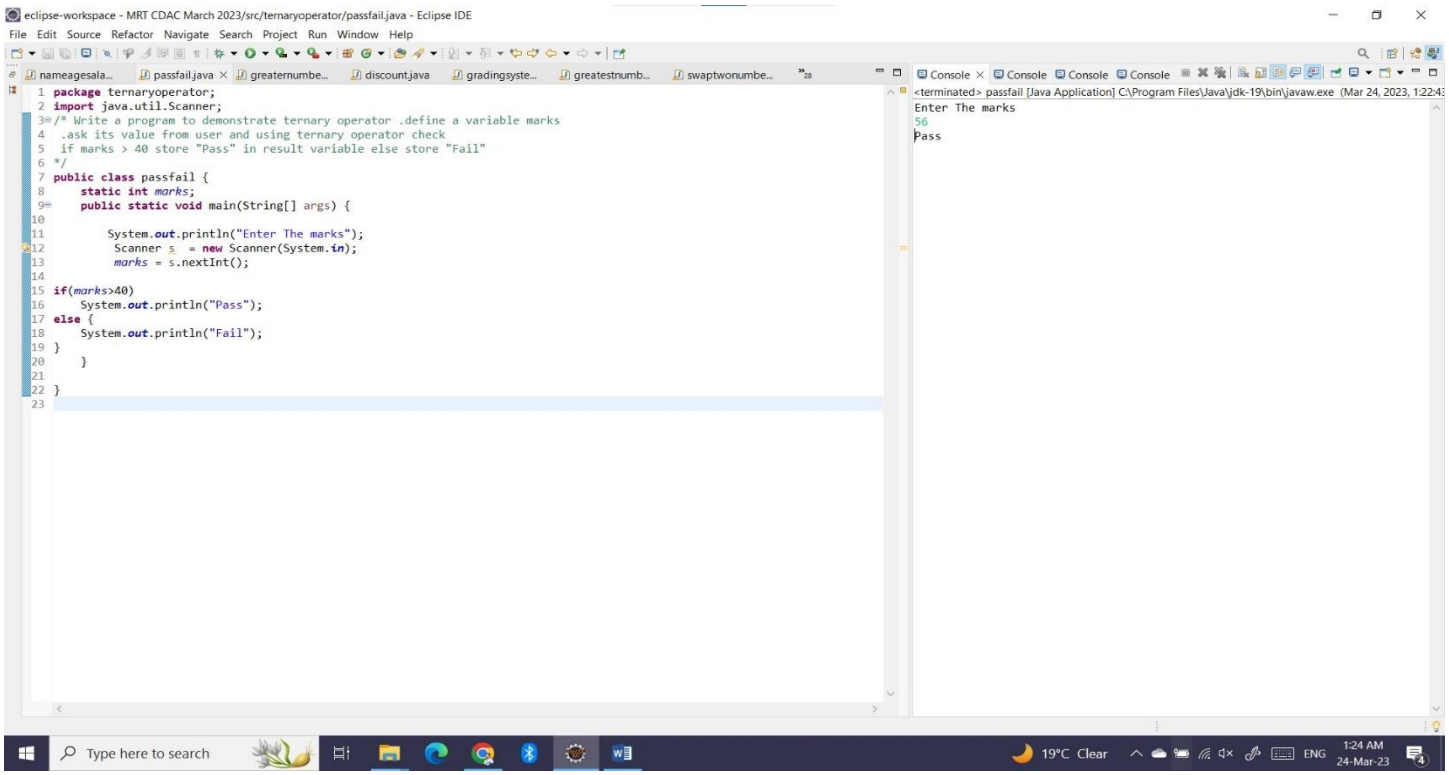
Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**

Q1: -wap to demonstrate ternary operator. define a variable mark. ask its value from user and using ternary operator check if marks > 40 store "Pass" in result variable else store "Fail"

```
package ternary operator;
import java. util. Scanner;
/* Write a program to demonstrate ternary operator. define a variable mark
 . ask its value from user and using ternary operator check
 if marks > 40 store "Pass" in result variable else store "Fail"
*/
public class passfail {
	static int marks;
	public static void main(String[] args) {

		System.out.println("Enter The marks");
		 Scanner s  = new Scanner(System.in);
		 marks = s.nextInt();

if(marks>40)
	System.out.println("Pass");
else {
	System.out.println("Fail");
}
	}

}
```

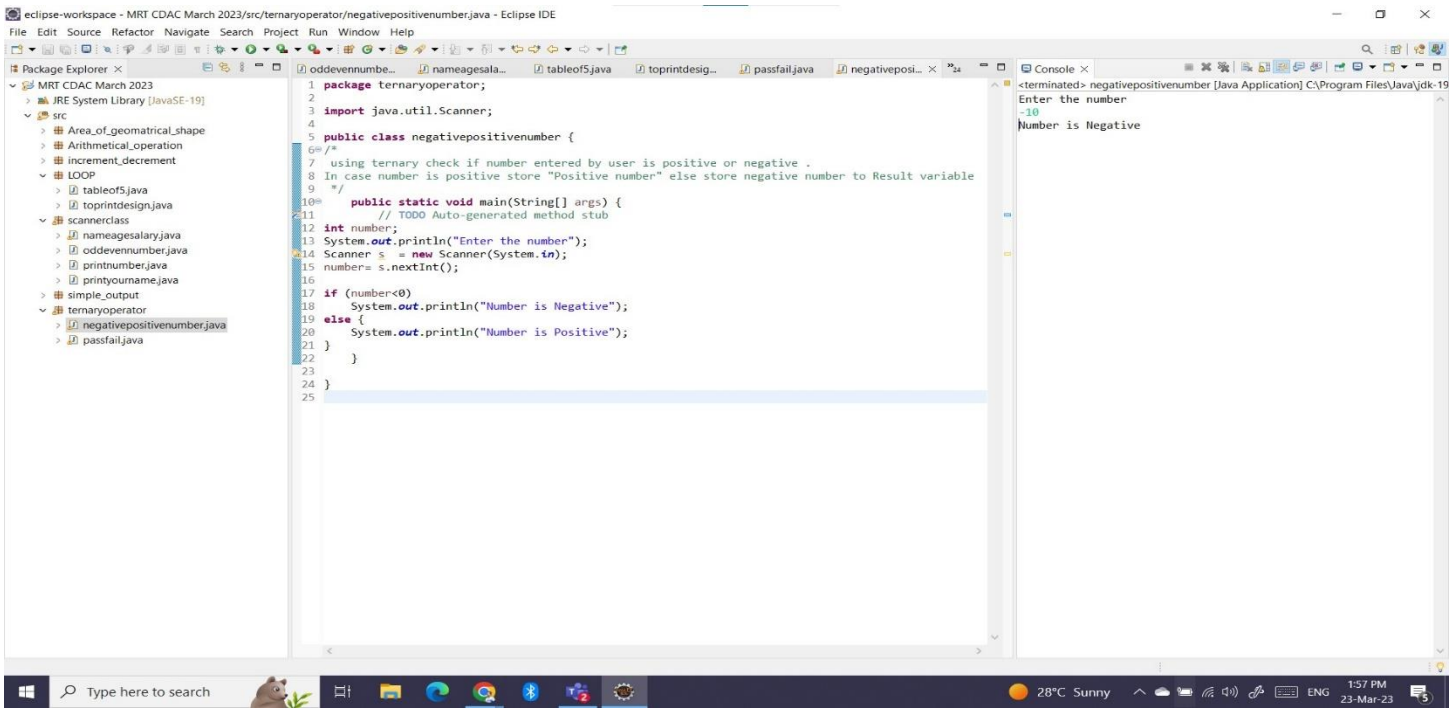


Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**

Q2:- **using ternary check if number entered by user is positive or negative. In case number is positive store "Positive number" else store negative number to Result variable.**

```
package ternaryoperator;

import java.util.Scanner;

public class negativepositivenumber {
/*
 using ternary check if number entered by user is positive or negative.
In case number is positive store "Positive number" else store negative number to Result variable
 */
	public static void main(String[] args) {
		// TODO Auto-generated method stub
int number;
System.out.println("Enter the number");
Scanner s  = new Scanner(System.in);
number= s.nextInt();

if (number<0)
	System.out.println("Number is Negative");
else {
	System.out.println("Number is Positive");
}
	}

}
```

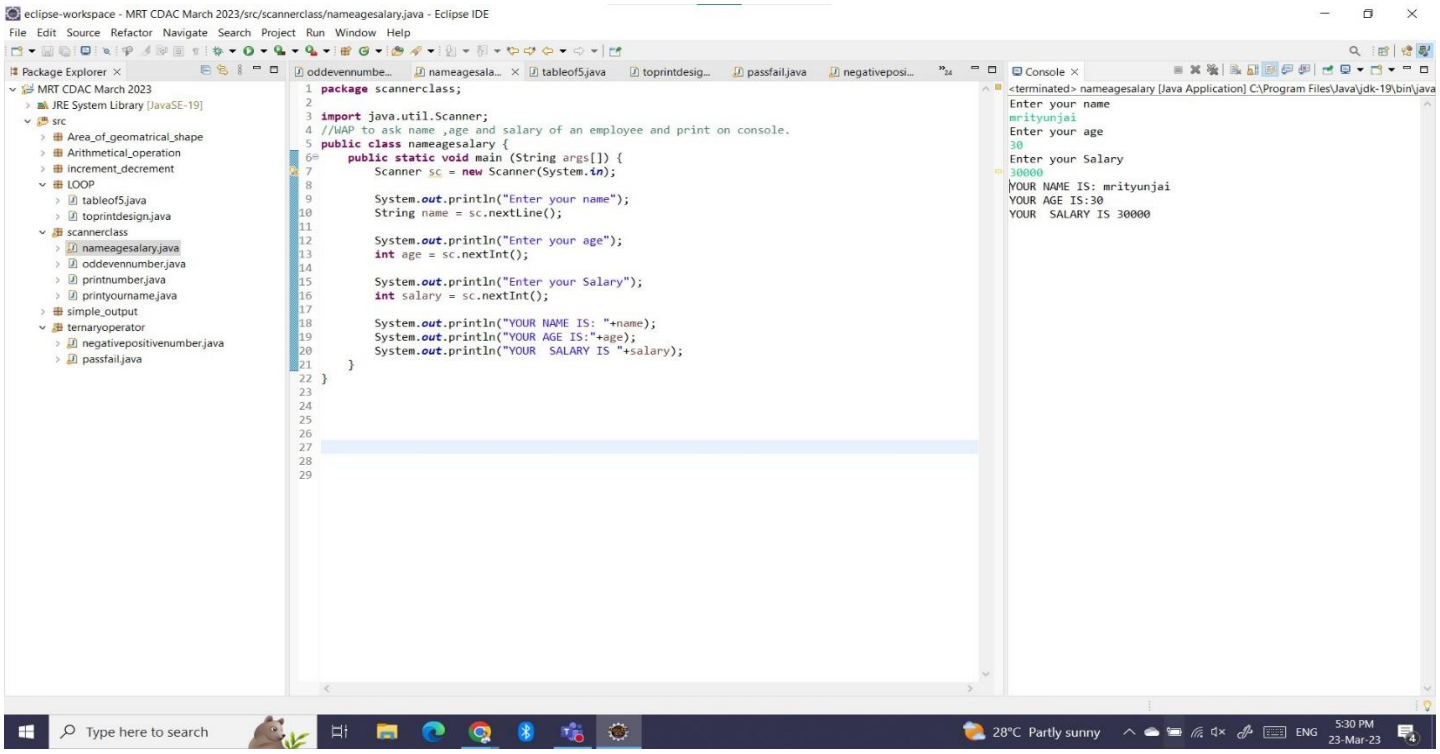


Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**

Q3: - WAP to ask name, age and salary of an employee and print on console.

```
package scannerclass;

import java.util.Scanner;
//WAP to ask name, age and salary of an employee and print on console.
public class nameagesalary {
	public static void main (String args[]) {
		Scanner sc = new Scanner(System.in);

		System.out.println("Enter your name");
		String name = sc.nextLine();

		System.out.println("Enter your age");
		int age = sc.nextInt();

		System.out.println("Enter your Salary");
		int salary = sc.nextInt();

		System.out.println("YOUR NAME IS: "+name);
		System.out.println("YOUR AGE IS:"+age);
		System.out.println("YOUR  SALARY IS "+salary);
	}
}
```



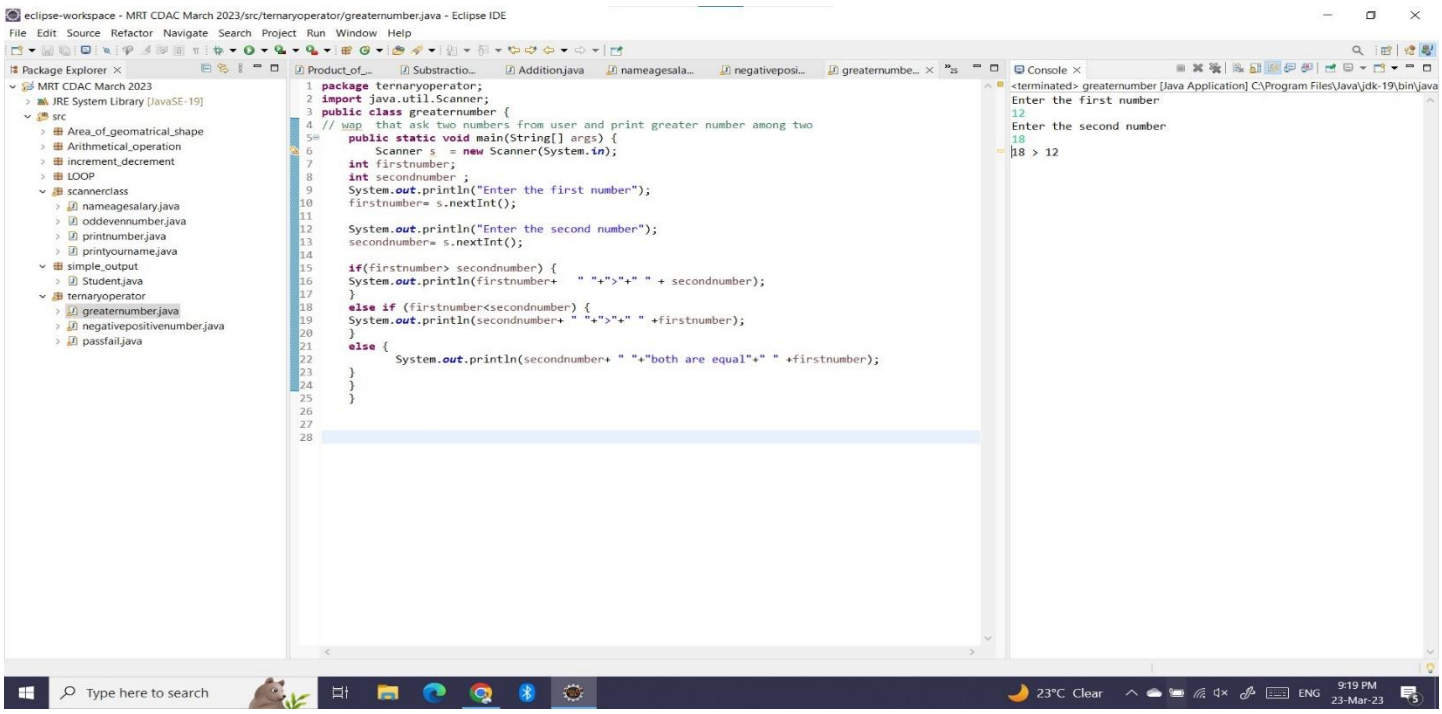
Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

Q4: wap that ask two numbers from user and print greater number among two.

```
package ternaryoperator;
import java.util.Scanner;
public class greaternumber {
// wap that ask two numbers from user and print greater number among two
	public static void main(String[] args) {
		Scanner s  = new Scanner(System.in);
	int firstnumber;
	int secondnumber ;
	System.out.println("Enter the first number");
	firstnumber= s.nextInt();

	System.out.println("Enter the second number");
	secondnumber= s.nextInt();

	if(firstnumber> secondnumber) {
    System.out.println(firstnumber+   " "+">"+" " + secondnumber);
	}
    else if (firstnumber<secondnumber) {
    System.out.println(secondnumber+ " "+">"+" " +firstnumber);
    }
    else {
		System.out.println(secondnumber+ " "+"both are equal"+" " +firstnumber);
    }
    }
    }
```



Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand

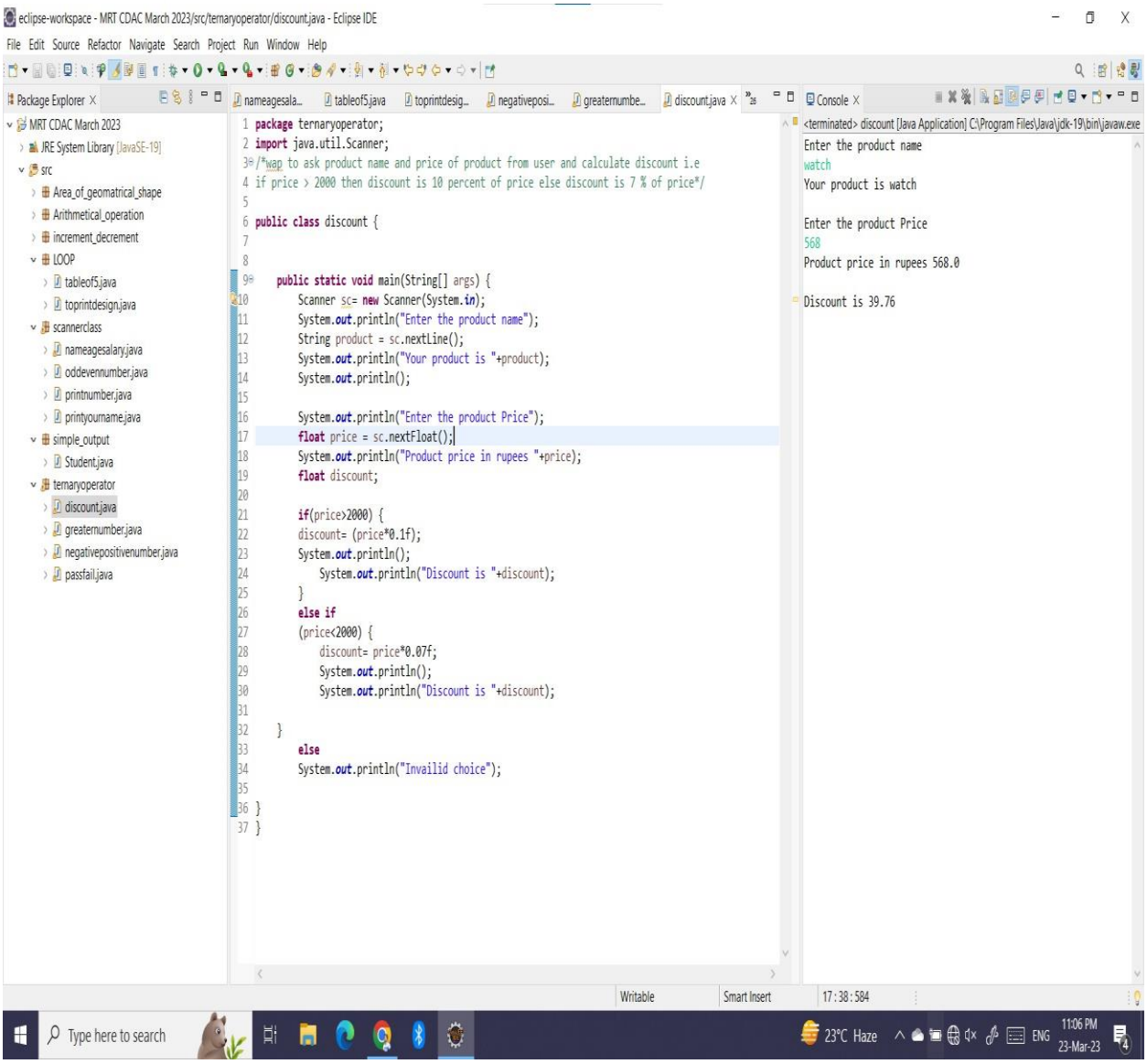
Email ID: jai4uanand@gmail.com

Q5: - wap to ask product name and price of product from user and calculate discount i.e if price > 2000 then discount is 10 percent of price else discount is 7 % of price.

```
package ternaryoperator;
import java.util.Scanner;
/*wap to ask product name and price of product from user and calculate discount i.e
if price > 2000 then discount is 10 percent of price else discount is 7 % of price*/

public class discount {


	public static void main(String[] args) {
		Scanner sc= new Scanner(System.in);
		System.out.println("Enter the product name");
		String product = sc.nextLine();
		System.out.println("Your product is "+product);
		System.out.println();

		System.out.println("Enter the product Price");
		float price = sc.nextFloat();
		System.out.println("Product price in rupees "+price);
		float discount;

		if(price>2000) {
		discount= (price*0.1f);
		System.out.println();
			System.out.println("Discount is "+discount);
		}
		else if
		(price<2000) {
			discount= price*0.07f;
			System.out.println();
			System.out.println("Discount is "+discount);

	}
		else
		System.out.println("Invailid choice");

}
}
```

Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**



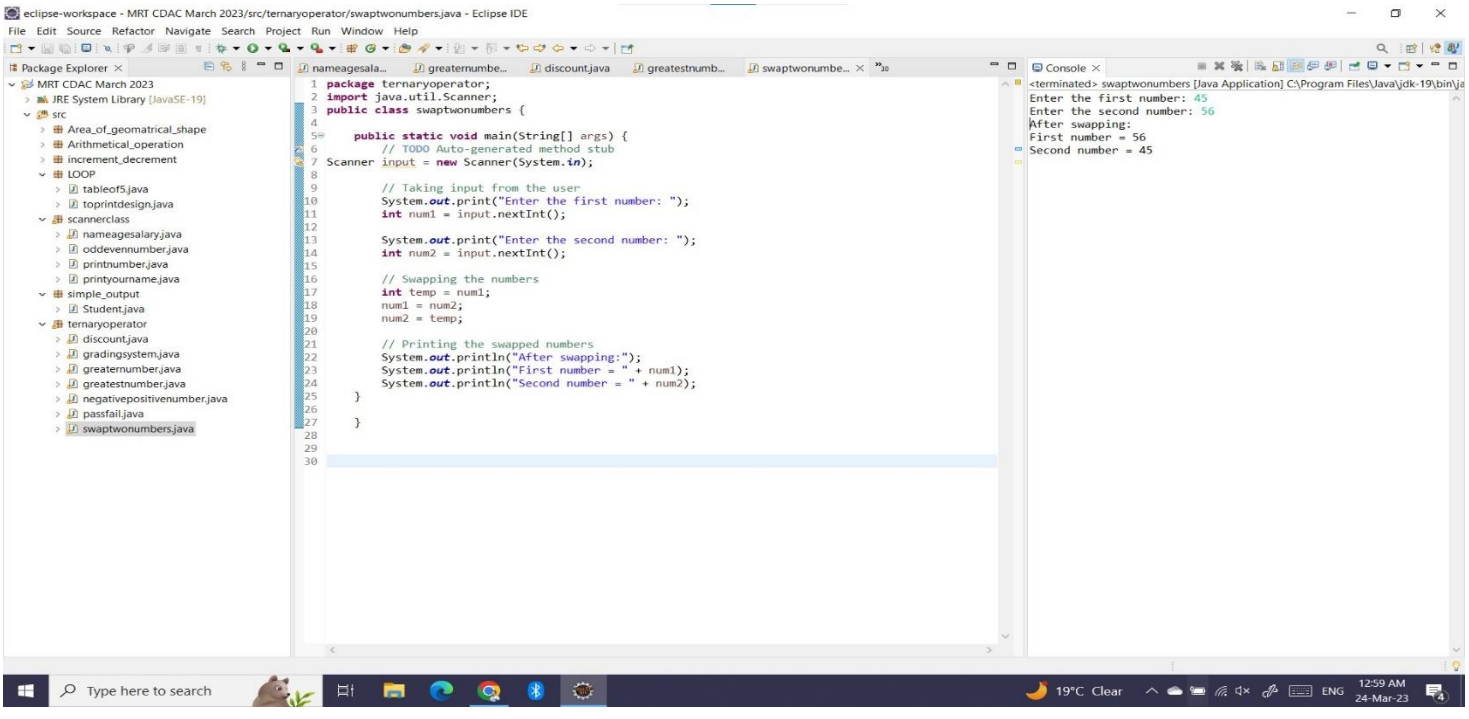
Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

Q6: - Wap to swap two numbers.

```
package ternaryoperator;
import java.util.Scanner;
public class swaptwonumbers {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
Scanner input = new Scanner(System.in);

		// Taking input from the user
		System.out.print("Enter the first number: ");
		int num1 = input.nextInt();

		System.out.print("Enter the second number: ");
		int num2 = input.nextInt();

		// Swapping the numbers
		int temp = num1;
		num1 = num2;
		num2 = temp;

		// Printing the swapped numbers
		System.out.println("After swapping:");
		System.out.println("First number = " + num1);
		System.out.println("Second number = " + num2);
	}

	}
```



Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

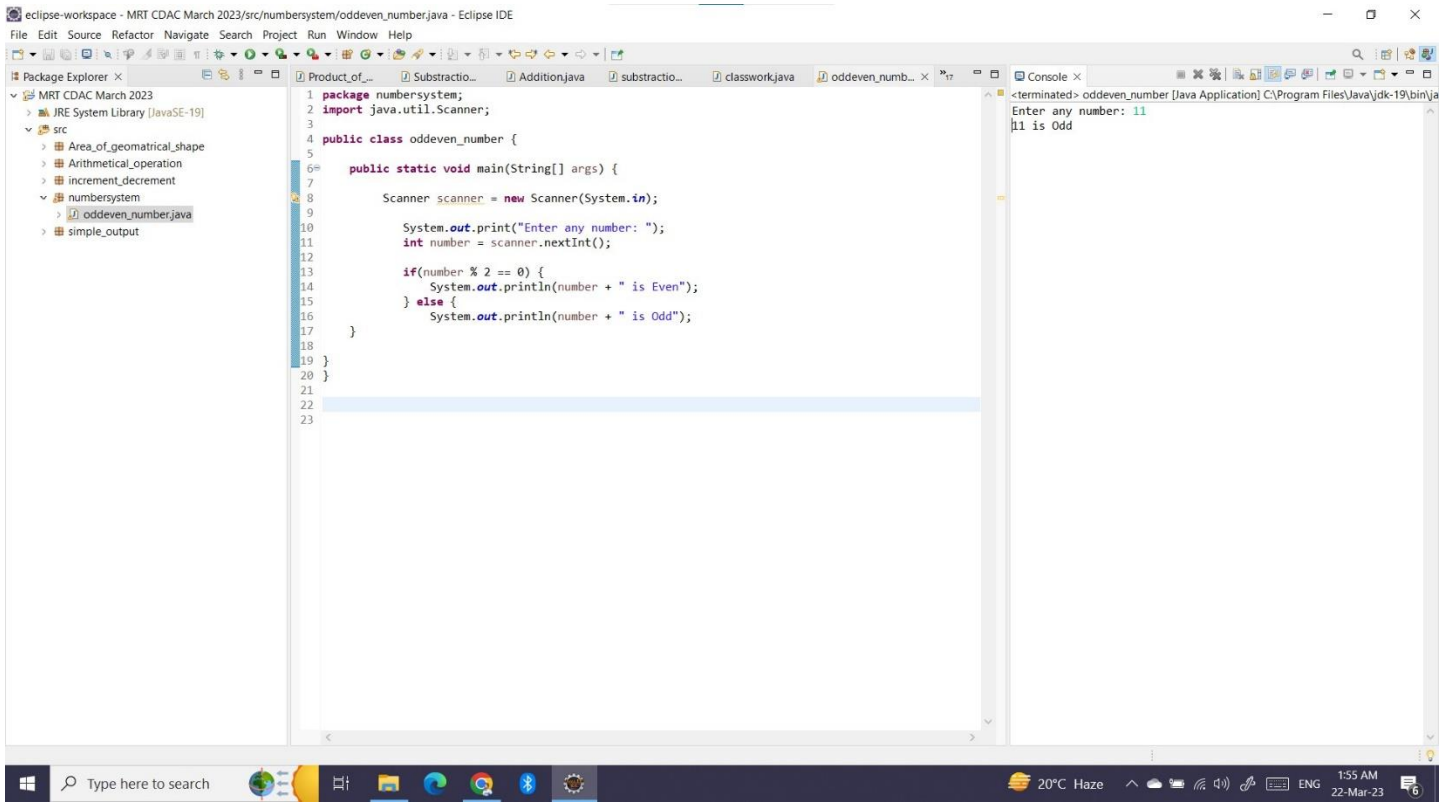
Q7: - How to swap two numbers without using a third variable?

Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

Q9: - wap to check is number is even or odd.

```
package scannerclass;
import java.util.Scanner;
public class oddevennumber {

	public static void main(String[] args) {

int n;
 System.out.println("Enter any Number");
 Scanner s  = new Scanner(System.in);
n= s.nextInt();
if(n%2==0) {
System.out.println("The number is Even Number");
	}
else {
	System.out.println("The number is Odd Number");
	s.close();
}
	}

}
```



Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

Q09: - A school has following rules for grading system:

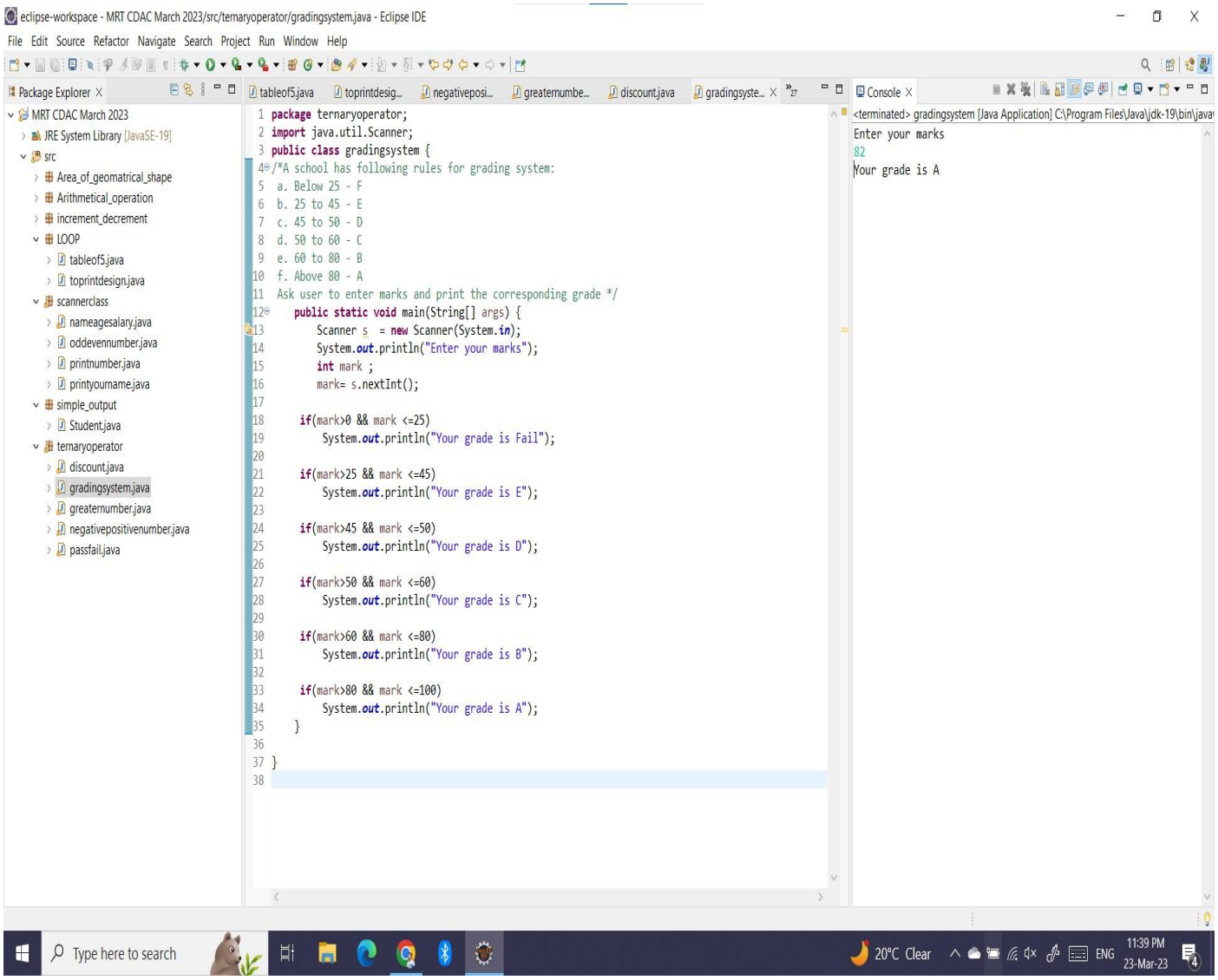
a. Below 25 - F
b. 25 to 45 - E
c. 45 to 50 - D
d. 50 to 60 - C
e. 60 to 80 - B
f. Above 80 - A

Ask user to enter marks and print the corresponding grade

```
package ternaryoperator;
import java.util.Scanner;
public class gradingsystem {
/*A school has following rules for grading system:
 a. Below 25 - F
 b. 25 to 45 - E
 c. 45 to 50 - D
 d. 50 to 60 - C
 e. 60 to 80 - B
 f. Above 80 - A
 Ask user to enter marks and print the corresponding grade */
      public static void main(String[] args) {
             Scanner s  = new Scanner(System.in);
             System.out.println("Enter your marks");
             int mark ;
             mark= s.nextInt();

     if(mark>0 && mark <=25)
        System.out.println("Your grade is Fail");

     if(mark>25 && mark <=45)
        System.out.println("Your grade is E");

     if(mark>45 && mark <=50)
        System.out.println("Your grade is D");

     if(mark>50 && mark <=60)
        System.out.println("Your grade is C");

     if(mark>60 && mark <=80)
        System.out.println("Your grade is B");

     if(mark>80 && mark <=100)
        System.out.println("Your grade is A");
       }

}
```

Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**



Submitted By: Mrityunjai Kumar Anand

Email ID: jai4uanand@gmail.com

Q10: - wap to check greater number among three numbers

```
package ternaryoperator;

import java.util.Scanner;

public class greatestnumber {

	public static void main(String[] args) {
		// TODO Auto-generated method stub

	  Scanner sc = new Scanner(System.in);

	  System.out.println("Enter first number");
		int n1 = sc.nextInt();

		System.out.println("Enter second number");
		int n2 = sc.nextInt();

		System.out.println("Enter third number");
		int n3 = sc.nextInt();

		if(n1>n2)
		{
			if (n1>n3)
				System.out.println("The greatest number ="+n1);
			else
				System.out.println("The greatest number="+n3);
		}
		else
		{
		if(n2>n3)
			System.out.println("The greatest number ="+n2);

		else
			System.out.println("The greatest number="+n3);
		}
	}

}
```

Assignment 01 (Concept of Programming)

Submitted By: Mrityunjai Kumar Anand **Email ID: jai4uanand@gmail.com**