Assignment 2_COP

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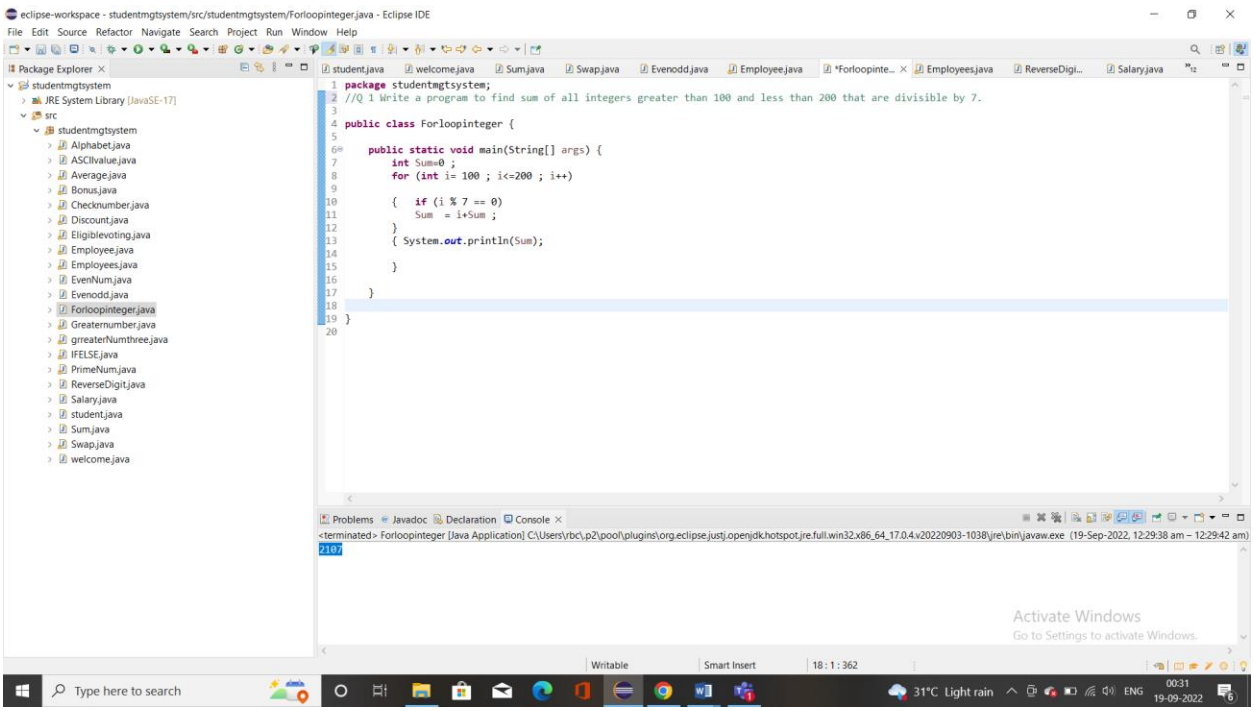
COURSE – DAC , BATCH B

Program 1

```
package studentmgtsystem;
//Q 1 Write a program to find sum of all integers greater than 100 and less than 200
that are divisible by 7.

public class Forloopinteger {

	public static void main(String[] args) {
		int Sum=0 ;
		for (int i= 100 ; i<=200 ; i++)

		{	if (i % 7 == 0)
			Sum  = i+Sum ;
		}
		{ System.out.println(Sum);

		}

	}

}
```

Results

```
2107
```



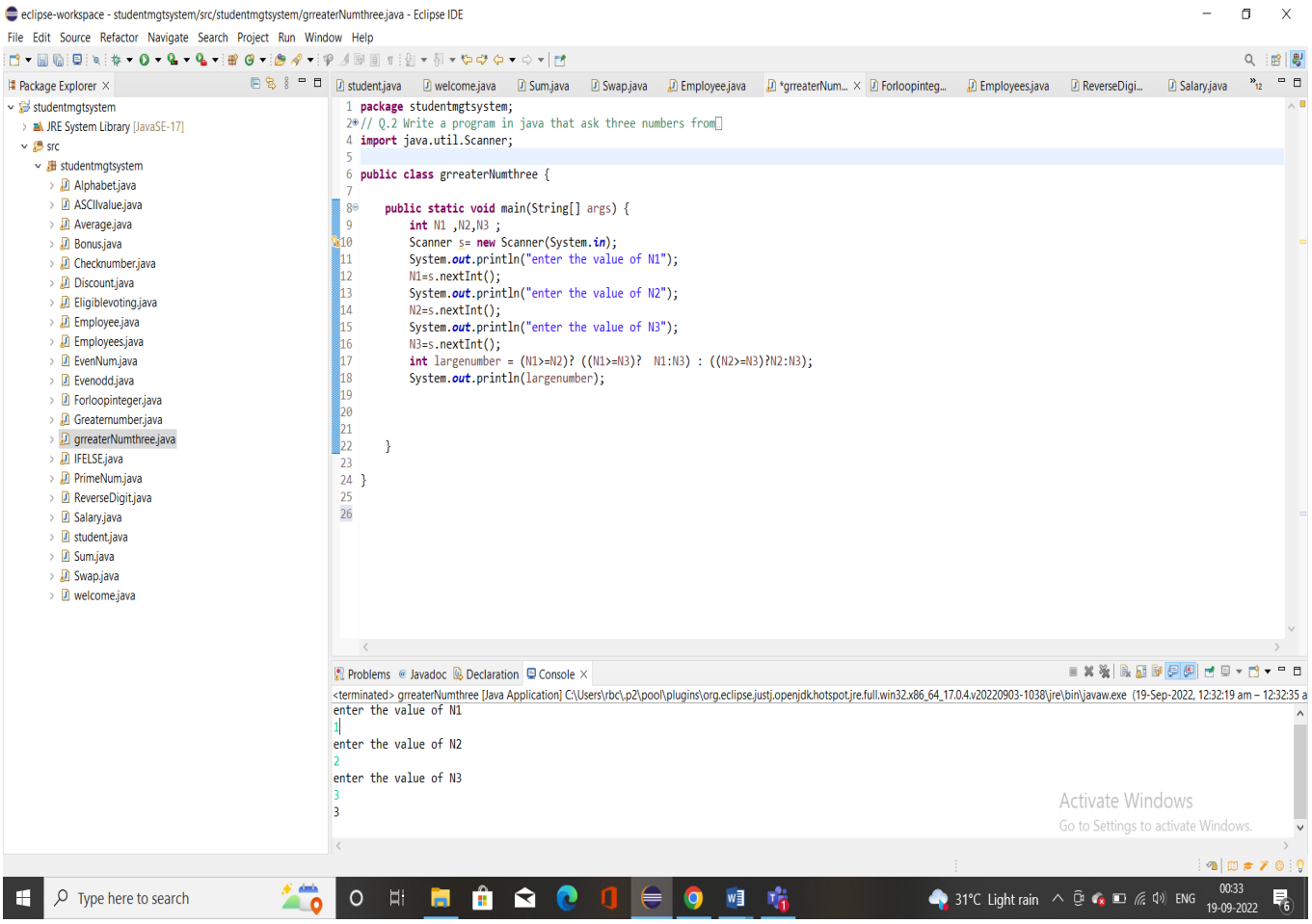
Program 2

```
package studentmgtsystem;
// Q.2 Write a program in java that ask three numbers from
//user and print the greatest among three .
import java.util.Scanner;

public class grreaterNumthree {

    public static void main(String[] args) {
        int N1 ,N2,N3 ;
        Scanner s= new Scanner(System.in);
        System.out.println("enter the value of N1");
        N1=s.nextInt();
        System.out.println("enter the value of N2");
        N2=s.nextInt();
        System.out.println("enter the value of N3");
```

```
            N3=s.nextInt();
            int largenumber = (N1>=N2)? ((N1>=N3)?  N1:N3) : ((N2>=N3)?N2:N3);
            System.out.println(largenumber);




        }

}
```

Result :

```
enter the value of N1
1
enter the value of N2
2
enter the value of N3
3
3
```

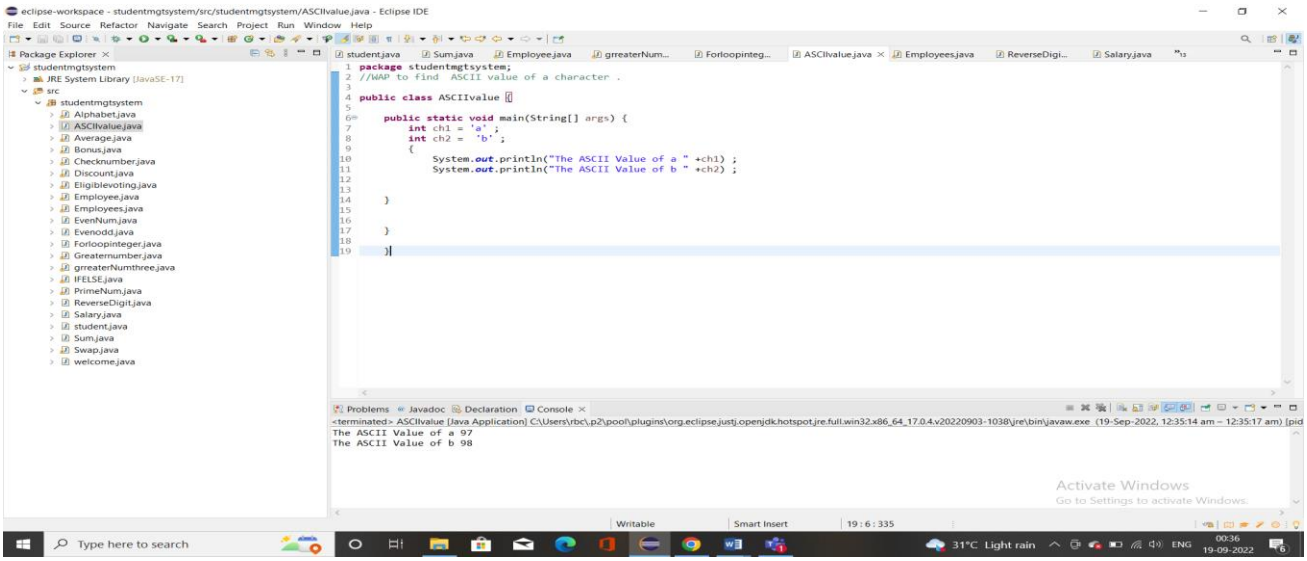


Program 3

```
package studentmgtsystem;
// Q. 3 WAP to find  ASCII value of a character .

public class ASCIIvalue {

	public static void main(String[] args) {
		int ch1 = 'a' ;
		int ch2 =  'b' ;
		{
		    System.out.println("The ASCII Value of a " +ch1) ;
		    System.out.println("The ASCII Value of b " +ch2) ;


	}


	}

	}
```

Result

```
The ASCII Value of a 97
The ASCII Value of b 98
```

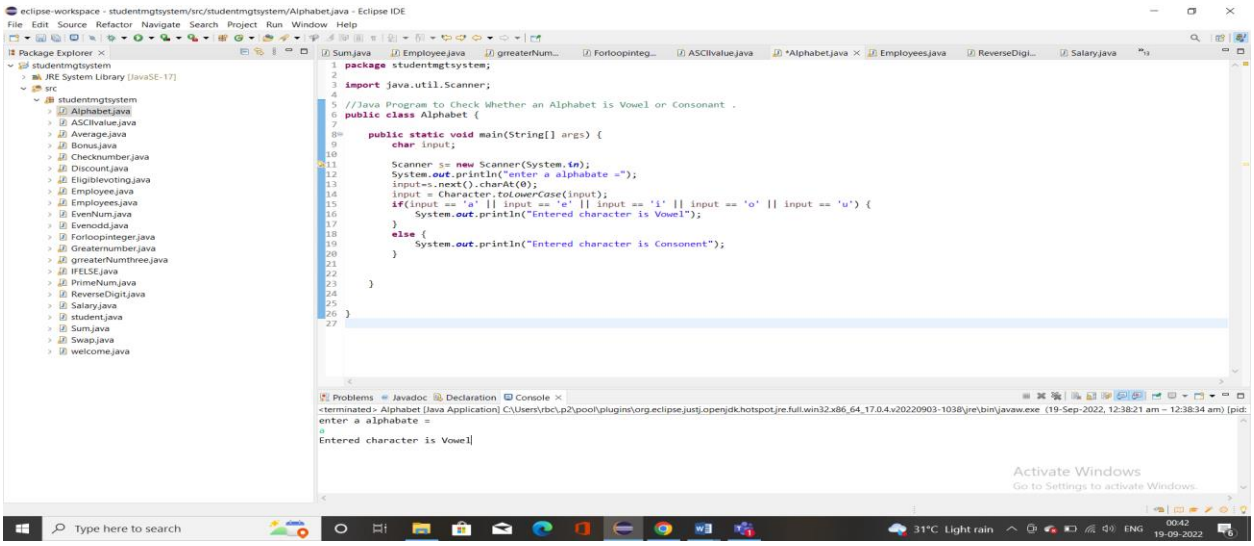


Program 4

```java
package studentmgtsystem;
// Q.4 Java Program to Check Whether an Alphabet is Vowel or Consonant .

import java.util.Scanner;

public class Alphabet {

	public static void main(String[] args) {
		char input;

		Scanner s= new Scanner(System.in);
		System.out.println("enter a alphabate =");
		input=s.next().charAt(0);
		input = Character.toLowerCase(input);
		if(input == 'a' || input == 'e' || input == 'i' || input == 'o' || input
== 'u') {
			System.out.println("Entered character is Vowel");
		}
		else {
			System.out.println("Entered character is Consonent");
		}


	}


}
```

Result

```
enter a alphabate =
a
Entered character is Vowel
```

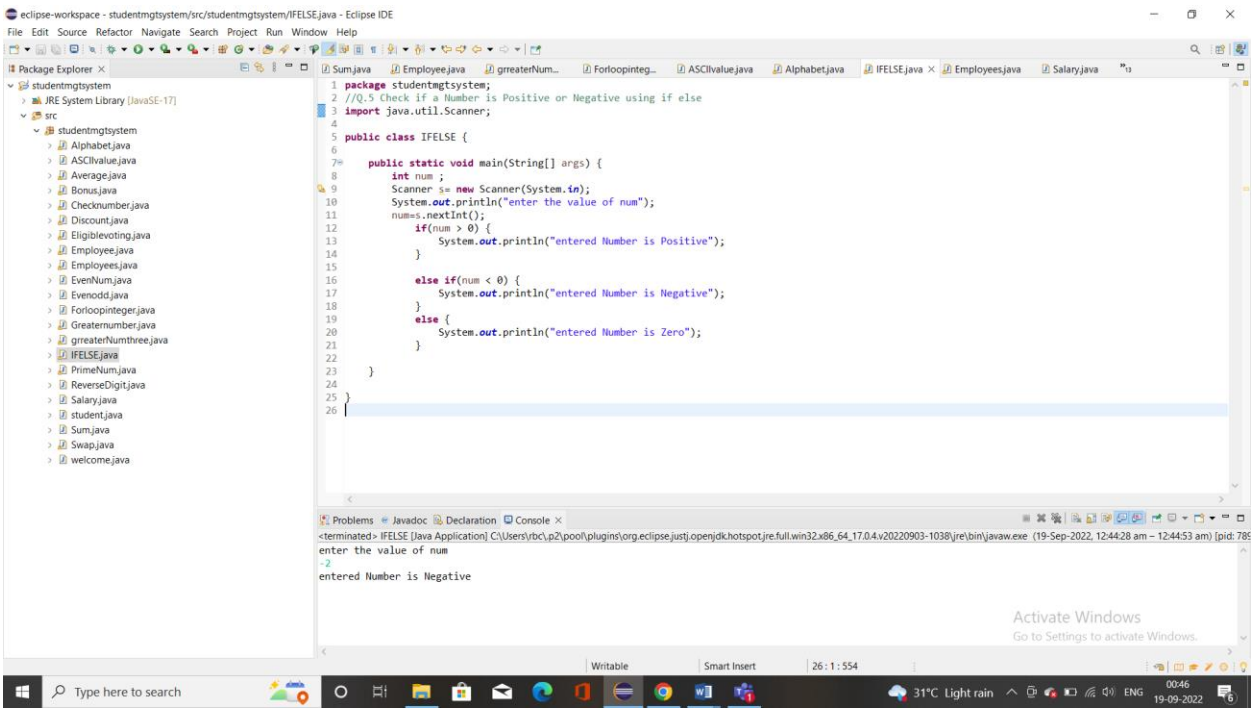


Program 5

```
package studentmgtsystem;
//Q.5 Check if a Number is Positive or Negative using if else
import java.util.Scanner;

public class IFELSE {

	public static void main(String[] args) {
		int num ;
		Scanner s= new Scanner(System.in);
		System.out.println("enter the value of num");
		num=s.nextInt();
			if(num > 0) {
				System.out.println("entered Number is Positive");
			}

			else if(num < 0) {
				System.out.println("entered Number is Negative");
			}
			else {
				System.out.println("entered Number is Zero");
			}

	}

}
```

Result

```
enter the value of num
-2
entered Number is Negative
```

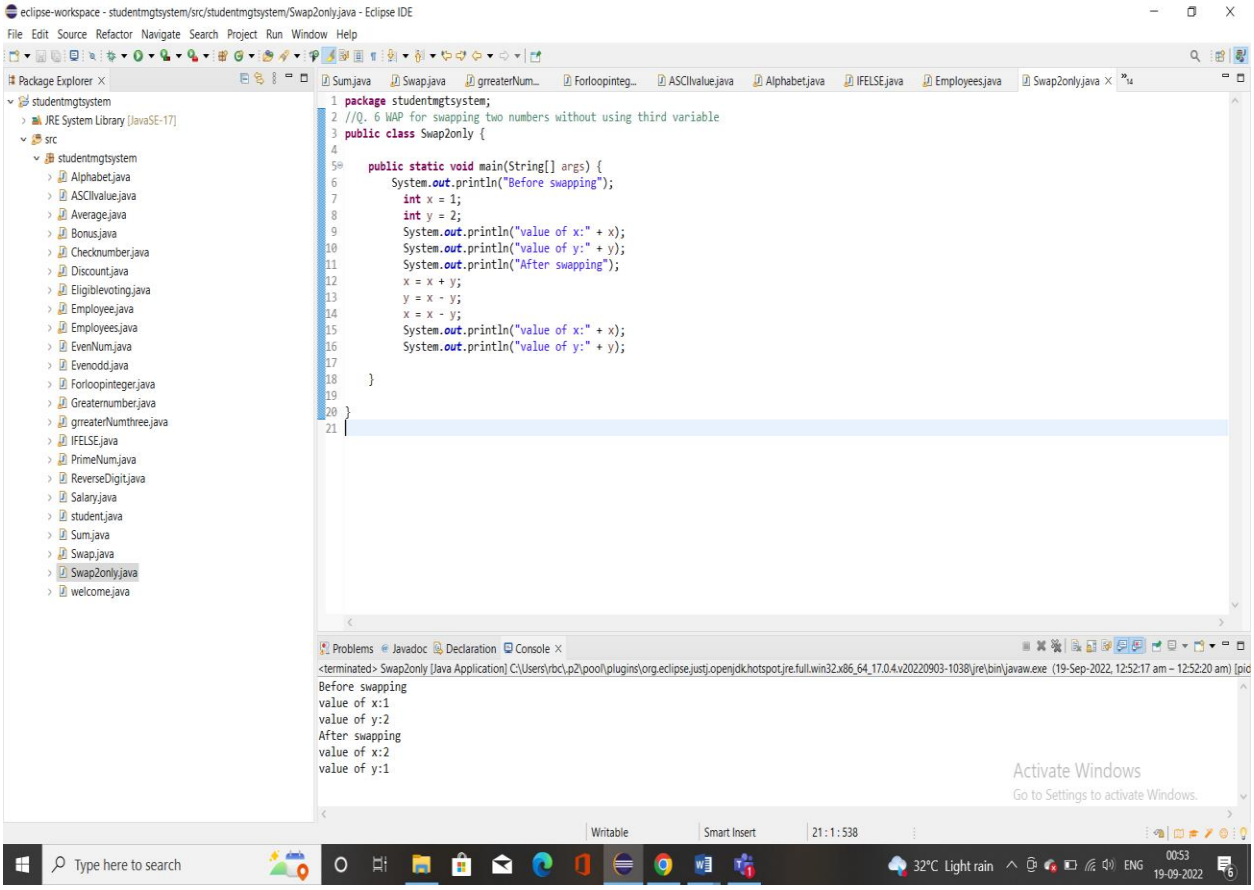


Program 6

```java
package studentmgtsystem;
//Q. 6 WAP for swapping two numbers without using third variable
public class Swap2only {

	public static void main(String[] args) {
		System.out.println("Before swapping");
		  int x = 1;
		  int y = 2;
		  System.out.println("value of x:" + x);
		  System.out.println("value of y:" + y);
		  System.out.println("After swapping");
		  x = x + y;
		  y = x - y;
		  x = x - y;
		  System.out.println("value of x:" + x);
		  System.out.println("value of y:" + y);


	}

}
```

Result

```
Before swapping
value of x:1
value of y:2
After swapping
value of x:2
value of y:1
```

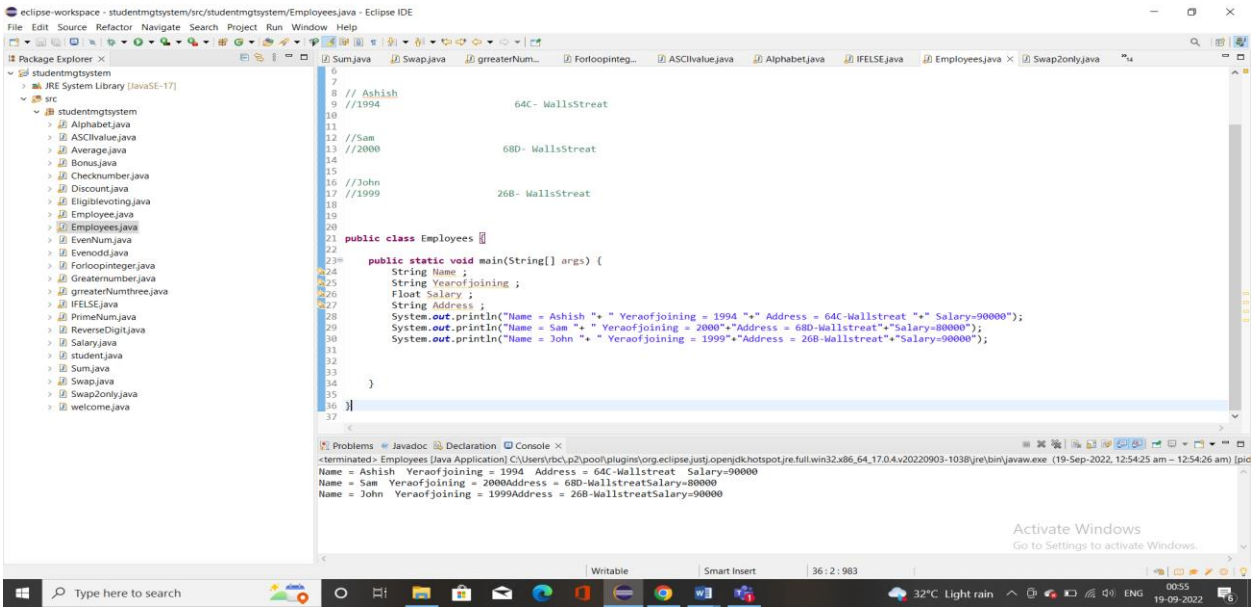


Program 7

```
package studentmgtsystem;
// Q.7 Write a program that would print the information (name,
//year of joining, salary, address) of three employees by creating a class named
//'Employee'. The output should be as follows:
//Name           Year of joining        Address


// Ashish
//1994                        64C- WallsStreat


//Sam
//2000                      68D- WallsStreat


//John
//1999                     26B- WallsStreat



public class Employees {

	public static void main(String[] args) {
		String Name ;
		String Yearofjoining ;
		Float Salary ;
		String Address ;
		System.out.println("Name = Ashish "+ " Yeraofjoining = 1994 "+" Address
= 64C-Wallstreat "+" Salary=90000");
		System.out.println("Name = Sam "+ " Yeraofjoining = 2000"+"Address =
68D-Wallstreat"+"Salary=80000");
		System.out.println("Name = John "+ " Yeraofjoining = 1999"+"Address =
26B-Wallstreat"+"Salary=90000");
```

Result

```
Name = Ashish  Yeraofjoining = 1994  Address = 64C-Wallstreat  Salary=90000
Name = Sam  Yeraofjoining = 2000Address = 68D-WallstreatSalary=80000
Name = John  Yeraofjoining = 1999Address = 26B-WallstreatSalary=90000
```

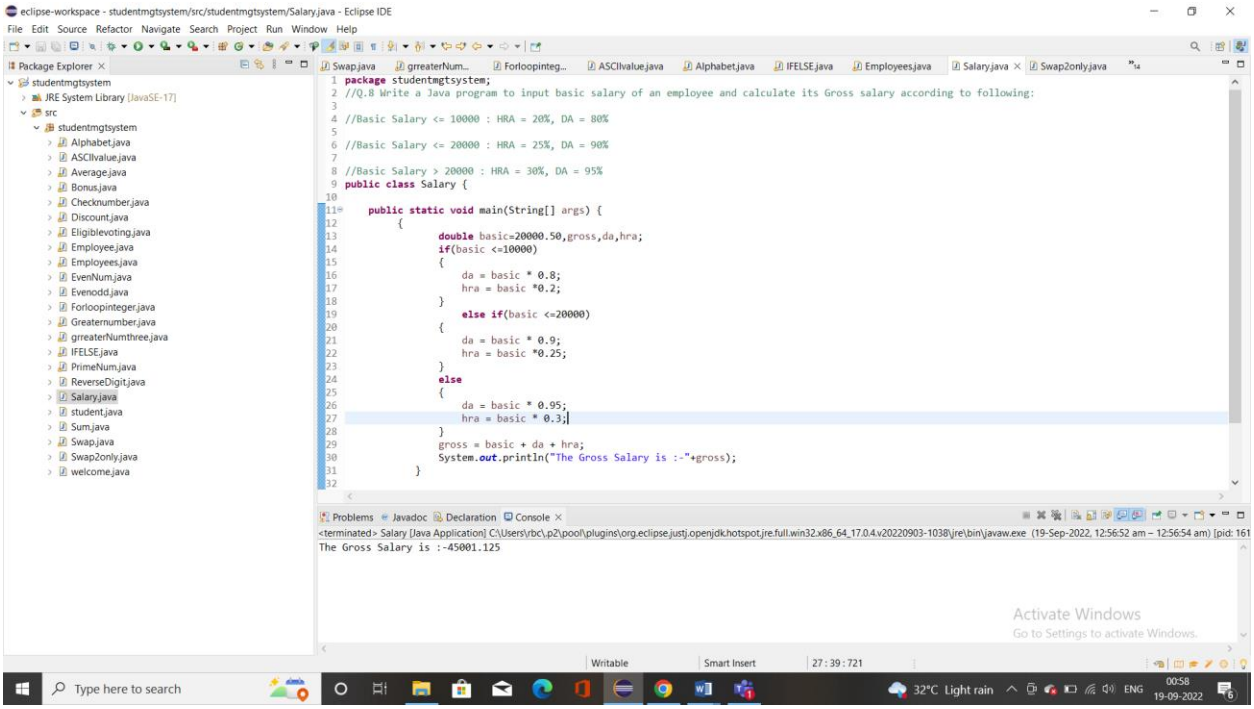


Program 8

```
package studentmgtsystem;
//Q.8 Write a Java program to input basic salary of an employee and calculate its
Gross salary according to following:

//Basic Salary <= 10000 : HRA = 20%, DA = 80%

//Basic Salary <= 20000 : HRA = 25%, DA = 90%

//Basic Salary > 20000 : HRA = 30%, DA = 95%
public class Salary {

	public static void main(String[] args) {
		{
			double basic=20000.50,gross,da,hra;
			if(basic <=10000)
			{
			    da = basic * 0.8;
			    hra = basic *0.2;
			}
			    else if(basic <=20000)
			{
			    da = basic * 0.9;
			    hra = basic *0.25;
			}
			else
			{
			    da = basic * 0.95;
			    hra = basic * 0.3;
			}
			gross = basic + da + hra;
			System.out.println("The Gross Salary is :-"+gross);
		}
```

Result

The Gross Salary is :-45001.125

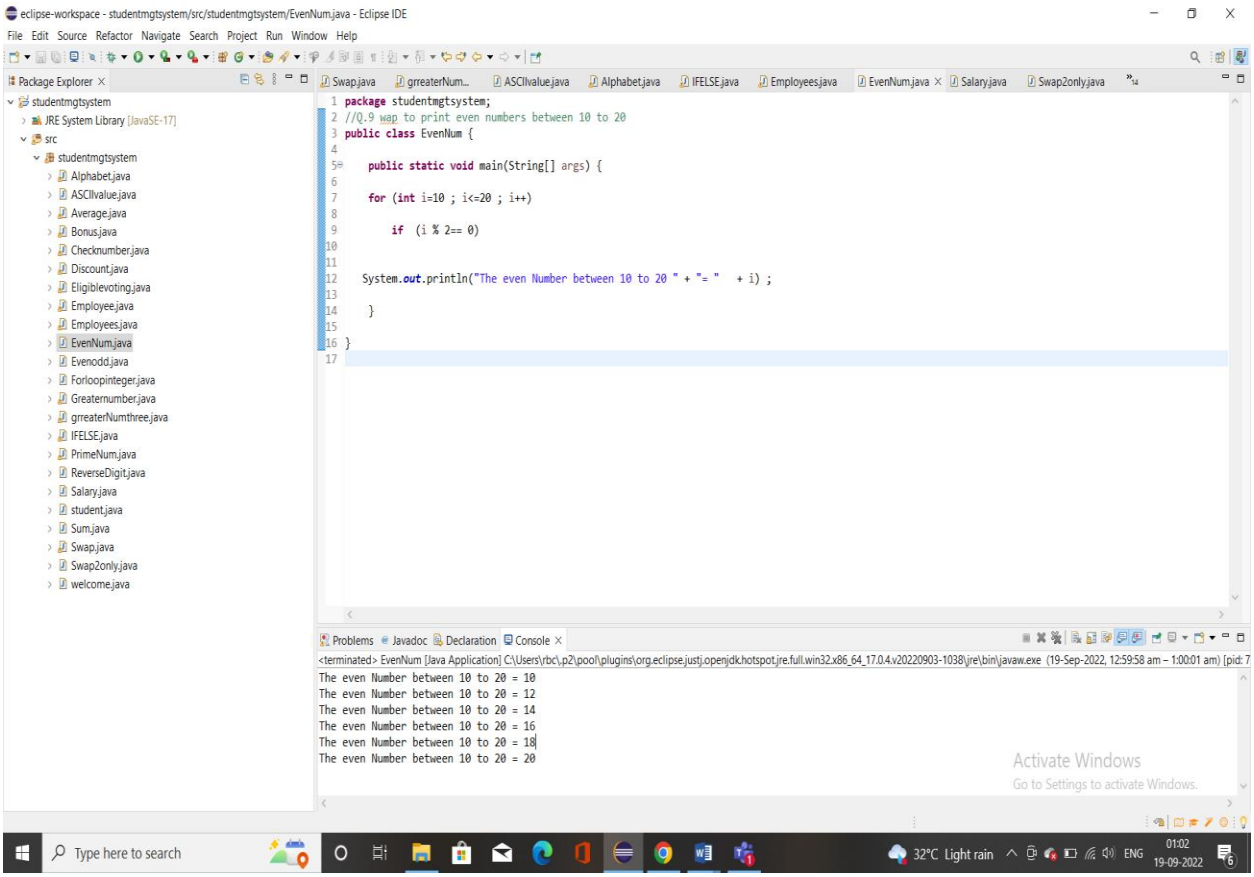


Program 9

```
package studentmgtsystem;
//Q.9 wap to print even numbers between 10 to 20
public class EvenNum {

	public static void main(String[] args) {

    for (int i=10 ; i<=20 ; i++)

	if  (i % 2== 0)


   System.out.println("The even Number between 10 to 20 " + "= "    + i) ;

	}

}
```

Result

```
The even Number between 10 to 20 = 10
The even Number between 10 to 20 = 12
The even Number between 10 to 20 = 14
The even Number between 10 to 20 = 16
The even Number between 10 to 20 = 18
The even Number between 10 to 20 = 20
```

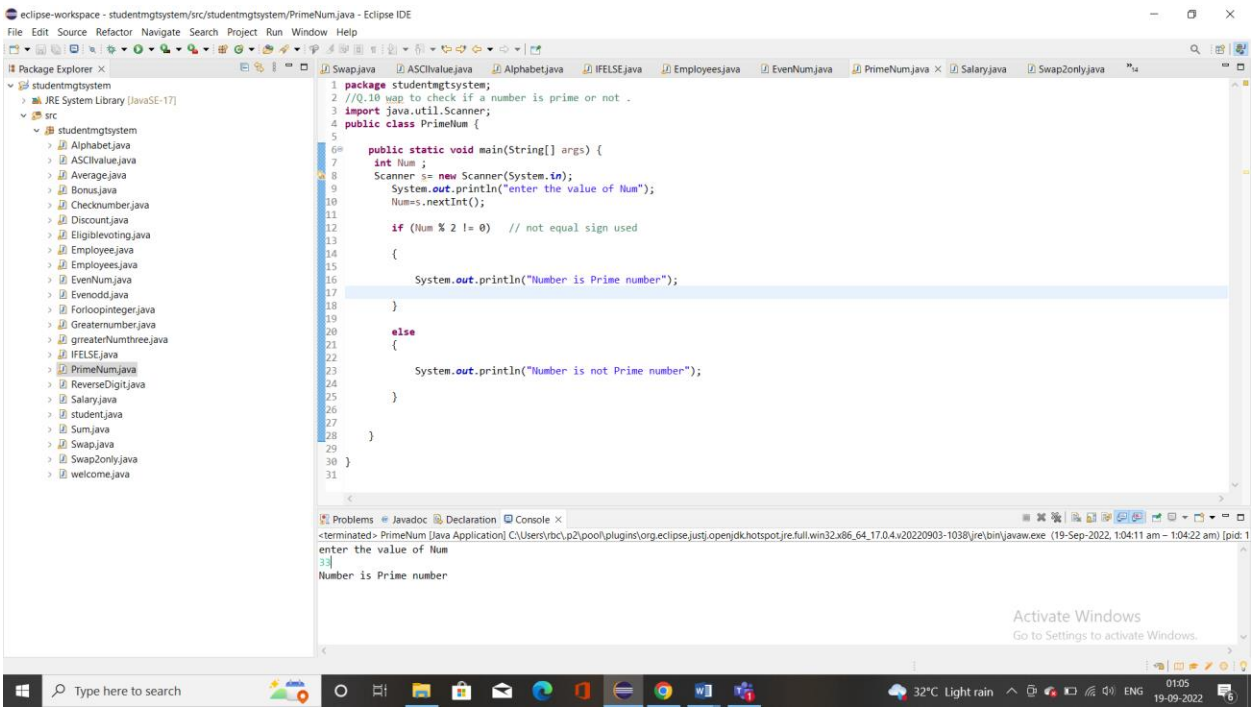


Program 10

```
package studentmgtsystem;
//Q.10 wap to check if a number is prime or not .
import java.util.Scanner;
public class PrimeNum {

	public static void main(String[] args) {
	 int Num ;
	 Scanner s= new Scanner(System.in);
		System.out.println("enter the value of Num");
		Num=s.nextInt();

		if (Num % 2 != 0)   // not equal sign used

		{

			System.out.println("Number is Prime number");

		}

		else
		{

			System.out.println("Number is not Prime number");

		}


	}

}
```

Result

```
enter the value of Num
33
Number is Prime number
```



Program 11

```
package studentmgtsystem;
// Q 11 wap to reverse a given digit   123   321
public class ReverseDigit {

	public static void main(String[] args) {

		int number = 123;
		 int reversedNumber = 0;
		 int temp = 0;

		 while(number > 0){

		 //use modulus operator to strip off the last digit
		 temp = number%10;

		 //create the reversed number
		 reversedNumber = reversedNumber * 10 + temp;
		 number = number/10;

		 }

		 //output the reversed number
		 System.out.println("Reversed Number is: " + reversedNumber);
		 }
		}
```

Result

```
Reversed Number is: 321
```