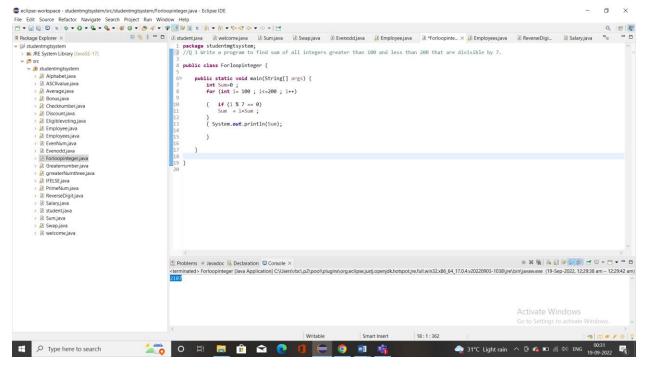
Assignment 2_COP

Student's Name - Shreya Namdev COURSE - DAC, BATCH B

Program 1

Results

2107



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

enter the value of N2

enter the value of N3

3
3
```

```
O
eclipse-workspace - studentmgtsystem/src/studentmgtsystem/grreaterNumthree.java - Eclipse IDE
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                          🖹 😘 🖟 🗖 🖸 studentjava 🗓 welcomejava 🖟 Sumjava 🖒 Swapjava 🖟 Employeejava 🖟 "greaterNum... 🗴 🖒 Forloopinteg... 🖟 Employeesjava 🗘 ReverseDigi... 🗘 Salaryjava 🔭 2
₽ Package Explorer ×
                                                       1 package studentmgtsystem;
2*// Q.2 Write a program in java that ask three numbers from
> M JRE System Library [JavaSE-17]
                                                       4 import java.util.Scanner;
  v 🥮 src

√ # studentmatsystem

                                                       6 public class grreaterNumthree {
      > Alphabet.java
      > ASCIlvalue.java
                                                             public static void main(String[] args) {
      > 🕗 Average.java
                                                                 int N1,N2,N3;
Scanner <u>s</u>= new Scanner(System.in);
System.out.println("enter the value of N1");
       > 🔬 Bonus.java
      > A Checknumber.iava
                                                                 N1=s.nextInt();
      > 🎵 Discount.iava
                                                                 System.out.println("enter the value of N2");
      > 💹 Eligiblevoting.java
                                                                 N2=s.nextInt();
System.out.println("enter the value of N3");
      > 🕖 Employee.java
      > 🕖 Employees.java
                                                                 N3=s.nextInt();
int largenumber = (N1>=N2)? ((N1>=N3)? N1:N3) : ((N2>=N3)?N2:N3);
      > 🛭 EvenNum.java
      > 🗓 Evenodd.java
                                                                 System.out.println(largenumber);
       > 

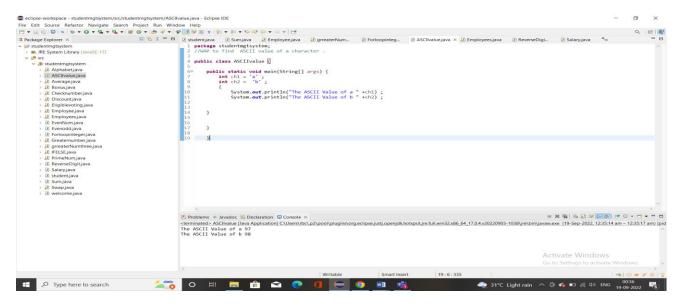
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       > 🕖 Greaternumber.java
       > 🛭 grreaterNumthree.java
                                                            }
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                                                     24 }
      > 

ReverseDigit.java
      > 🛭 Salary.java
       > 🗓 student.java
      > 🛭 Sum.java
       > 🕖 Swap.java
      > 🗓 welcome.java
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                                                     Problems @ Javadoc Declaration Console X
                                                     <terminated> grreaterNumthree [Java Application] C\Users\rbc\,p2\pool\plugins\org.eclipse.justj.openjdkhotspot.jre.full.win32x86_64_17.0.4x/20220903-1038\jre\bin\javaw.exe (19-Sep-2022, 12:32:19 am — 12:32:35 a
                                                     enter the value of N2
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                                                                                                                                                                          Activate Windows
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```

```
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) ;
        }
    }
}
```

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



```
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 <u>s</u>= 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");
      }
}
```

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

```
## Problems # Javadoc is Declaration © Consoler | System.out.println("Entered character is Consonent");

## Problems # Javadoc is Declaration © Consoler | System.out.println("Entered character is Consonent");

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## Problems # Javadoc is Declaration © Console | System.out.println("Entered character is Consonent");

## Problems # Javadoc is Declaration © Console | System.out.println("Entered character is Consonent");

## Problems # Javadoc is Declaration © Console | System.out
```

```
package studentmgtsystem;
//0.5 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) {</pre>
                           System.out.println("entered Number is Negative");
                    else {
                           System.out.println("entered Number is Zero");
                    }
      }
}
```

enter the value of num
-2
entered Number is Negative

```
eclipse-workspace - studentmgtsystem/src/studentmgtsystem/IFELSE.java - Eclipse IDE
                                                                                                                                                                                                                               - o ×
File Edit Source Refactor Navigate Search Project Run Window Help
1 package studentmgtsystem;
2 //Q.5 Check if a Number is Positive or Negative using if else
3 import java.util.Scanner;
> M. JKE 290...

> 5 src

> 15 studentmgtsystem

> 16 Alphabetjava

> 17 ASClivaluejava

- 18 Averagejava
                                                           blic static voam mount
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");
}
          Checknumber.java

Checknumber.java

Discount.java

Eligiblevoting.java

Employee.java

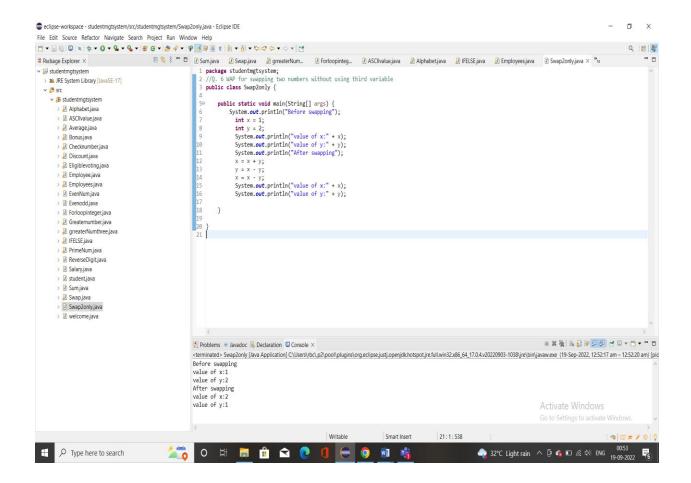
Employees.java
                                                                             else if(num < 0) {
    System.out.println("entered Number is Negative");</pre>
          Evenodd.java
          Forloopinteger.iava

Porloopintegerjava
Geaternumberjava
Geaternumberjava
Geaternumbreejava
FiselsEjava
PrimeNum.java
ReverseDigitjava
Salary.java
                                                                                     System.out.println("entered Number is Zero");
          🗷 student.java

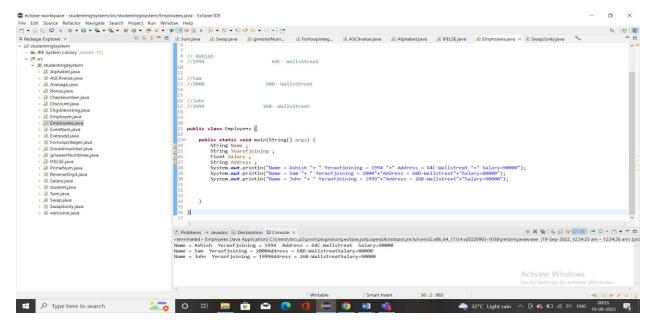
Sum.java
Swap.java
Welcome.java
                                                             -terminated > FELSE [Java Application] C\Users\rbc\,p2\poo\plugins\org.ectipse.justj.openjdk.hotspot.jre.full.win32x86_64_17.0.4v20220903-1038\jre\bin\javaw.exe (19-Sep-2022, 12-4428 am - 12-4453 am) [pid: 785] enter the value of num
                                                             entered Number is Negative
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```

```
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);
      }
}
```

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



```
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:
                Year of joining
                                      Address
//Name
// <u>Ashish</u>
                            64C- WallsStreat
//1994
//Sam
//2000
                          68D- WallsStreat
//John
//1999
                      26B- WallsStreat
public class Employees {
      public static void main(String[] args) {
             String Name;
             String Yearofjoining;
             Float <u>Salary</u>;
             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
```



```
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)</pre>
                        {
                            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);
                    }
```

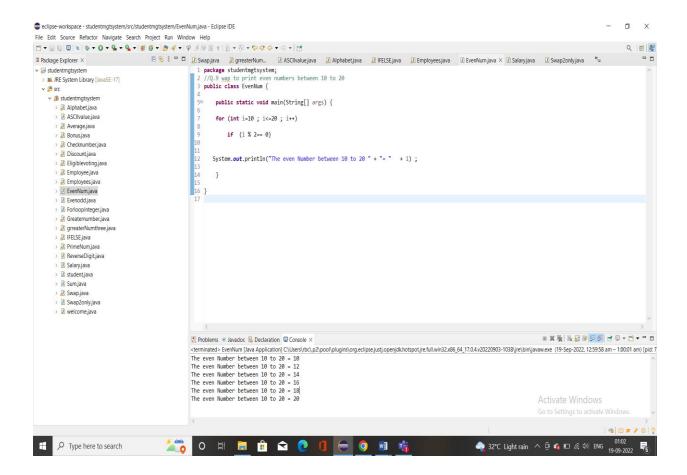
The Gross Salary is :-45001.125

```
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clipse-workspace - studentmgtsystem/src/studentmgtsystem/Salary.java - Eclipse IDE
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                               D Swapjava D greaterNum. D Forloopinteg.. D ASCINaluejava D Alphabetjava D FELSEjava D Employeesjava D Salanyjava X D SwapZonlyjava "u 1 package studentugtsystem; 2 //Q.8 Write a Java program to input basic salary of an employee and calculate its Gross salary according to following:
 Package Explorer ×
4 //Basic Salary <= 10000 : HRA = 20%, DA = 80%
                                                                         5
6 //Basic Salary <= 20000 : HRA = 25%, DA = 90%
                                                                          /
8 //Basic Salary > 20000 : HRA = 30%, DA = 95%
9 public class Salary {
          > // Average.java
           Bonus.java
           Checknumber.iava
                                                                                   public static void main(String[] args) {
           Checknumber.java
Discount.java
Eligiblevoting.java
Employee.java
Employees.java
EvenNum.java
                                                                                                   double basic=20000.50,gross,da,hra;
if(basic <=10000)</pre>
           Forloopintegerjava
Forloopintegerjava
Greaternumberjava
FigreaterNumthreejava
FiseLSE.java
PrimeNumjava
Salary.java
Salary.java
                                                                                                       else if(basic <=20000)
                                                                                                     da = basic * 0.95;
hra = basic * 0.3;
            Sum.java
                                                                                                   gross = basic + da + hra;
System.out.println("The Gross Salary is :-"+gross);
                                                                       Problems Javadoc Declaration Console ×
                                                                       -terminated-Salary [Java Application] C\(\text{Users/vick}, \rho\(\text{pol}\) pool\(\text{polypolyjes/iong-eclipse-just}\) iopenjdkhotspot.jre\(\text{jull.win32}\) x86.64 \(\text{17.0.4.v2022993-1038\)\(\text{jre-bin\}\) avawere \((19-\text{Sep-2022}\) \(\text{12565}\) am \(-125654\) am) [pid: 161
The Gross Salary is: -45001.125
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```

```
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) ;
    }
}</pre>
```

```
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
```



```
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 <u>s</u>= 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
```

```
eclipse-workspace - studentmgtsystem/src/studentmgtsystem/PrimeNum.java - Eclipse IDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        - a ×
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> ☑ studentmgtsystem

> ﷺ JRE System Library [JavaSE-17]

> ☑ src

→ ﷺ studentmgtsystem
                                                                                                                                                                1 package studentmgtsystem;
2 //Q.10 wap to check if a number is prime or not .
3 import java.util.Scanner;
4 public class PrimeNum {
                                                                                                                                                        d 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-s.nextint();

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

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

System.out.println("Number is Printle")

else
{

System.out.println("Number is not

                    > Alphabet.java
> ASCIIvalue.java
                                                                                                                                                                                      int Num ;
Scanner s= new Scanner(System.in);
System.out.println("enter the value of Num");
Num=s.nextInt();
                     > Average.iava
                         Checknumber.java

Checknumber, java

Discount, java

Eligiblevoting, java

Employee, java

Employee, java

Employees, java

EvenoMun, java

EvenoMun, java
                                                                                                                                                                                           if (Num % 2 != 0) // not equal sign used
                                                                                                                                                                                                           System.out.println("Number is Prime number");

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PrimeNumjava
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Salaryjava
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                                                                                                                                                                                                         System.out.println("Number is not Prime number");
                          student.java
                          Sum.java
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                                                                                                                                                            -terminated> PrimeNum [Java Application] C\Users\rbc\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86.64_17.0.4.v20220903-1038\jre\bin\javaw.eve (19-Sep-2022, 104:11 am - 1:04:22 am) [pid: 1] enter the value of Num
                                                                                                                                                            Number is Prime number
Type here to search
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 32°C Light rain ↑ 🖟 😘 🖾 🦟 (4) ENG 19-09-2022
```

```
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);
             }
```

Reversed Number is: 321

