KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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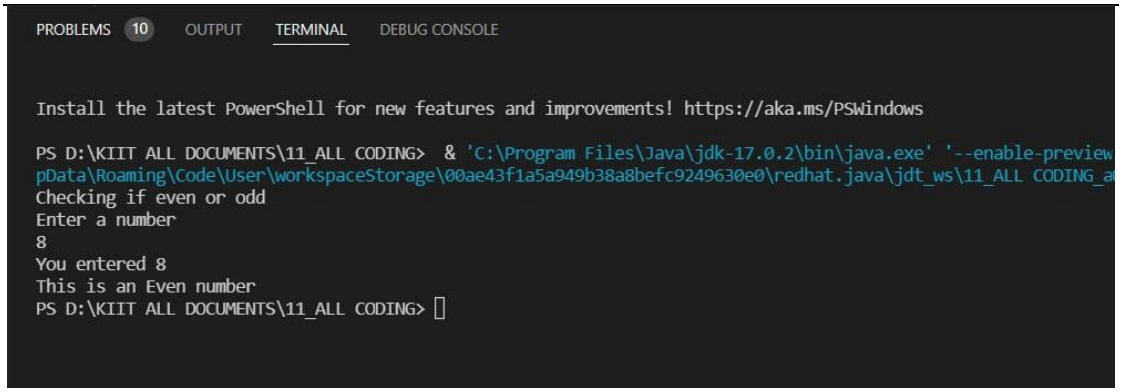
ROLL NUMBER	20051796
SECTION	CSE-17
COURSE	WEB TECHNOLOGY
ASSIGNMENT TOPIC	JAVA CODES
ASSIGNMENT NUMBER	5

➢ QUESTION 1- CHECK EVEN/ODD

```
import java.util.Scanner;

class q_1_even_odd
{
   public static void main (String [] args)
   {
      // to check a number is even or odd
      System.out.println("Checking if even or odd");
      System.out.println("Enter a number");
       Scanner input = new Scanner(System.in);
       int num= input.nextInt();
       System.out.println("You entered " +num);

       if(num%2==0)
       {
          System.out.println("This is an Even number");
       }
       else
       System.out.println("This is an Odd number");



   }
}
```

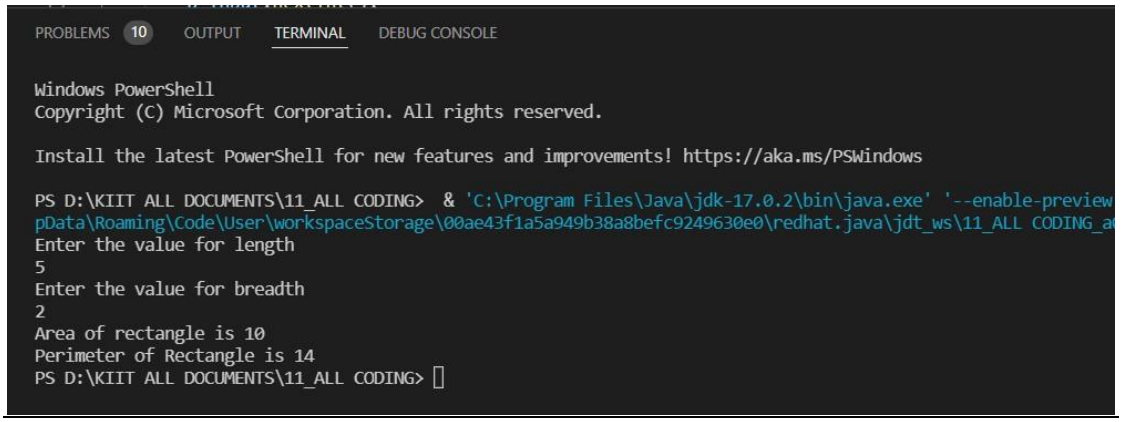
OUTPUT -1



➢ QUESTION 2- AREA AND PERIMETER OF A RECTANGLE

```
import java.util.Scanner;

public class q_2_ar_peri_rect
{
   public static void main (String[] args)
   {
      int l,b;
      // to calculate area and peri for rectangle
      System.out.println("Enter the value for length");
      Scanner input= new Scanner(System.in);
      l = input.nextInt();
      System.out.println("Enter the value for breadth");
      b=input.nextInt();

      int area;

      area = l*b;
      System.out.println("Area of rectangle is " + area);

      int peri;
      peri = 2*(l+b);
      System.out.println("Perimeter of Rectangle is " + peri);
  }
}
```

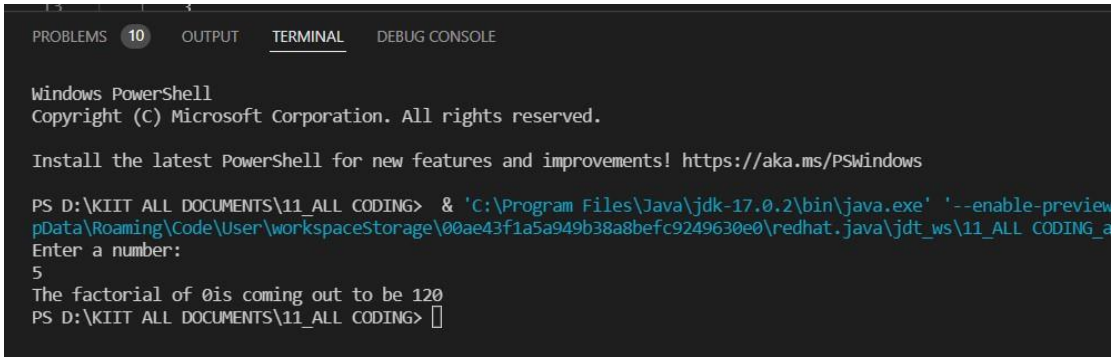
OUTPUT -2



➢ QUESTION 3 -FACTORIAL OF AN INTEGER

```
import java.util.Scanner;

public class q_3_fact
{
   public static void main (String[] args)
   {
      System.out.println("Enter a number: ");
      int fact=1;
      int num;
      Scanner input = new Scanner(System.in);
      num = input.nextInt();
      while(num>0)
      {
         fact= fact*num--;
      }
      System.out.print("The factorial of "+num);
      System.out.println("is coming out to be "+fact);
   }
}
```

OUTPUT -3



➢ QUESTION 4 ROOTS OF A QUADRATIC EQUATION

```
import java.util.Scanner;
public class q_4_roots_quad {

public static void main(String args[])
```

```
{
	Scanner input= new Scanner(System.in);
	float x, z, y;
	  double root1, root2, imaginary, disc;
System.out.println("Enter three values for the Quadratic Equation : ");
	  x=input.nextInt();
	  z=input.nextInt();
	  y=input.nextInt();
	  disc= (z * z) - (4 *x *y);
	  if(disc > 0)
	  {
		root1 = (-z + Math.pow(disc, 0.5)) / (2 * x);
		root2 = (-z - Math.pow(disc, 0.5)) / (2 * x);
System.out.println("Two Real Roots Exists: ="+root1+"and"+root2);
	  }
	  else if(disc == 0)
	  {
		root1 = root2 = -z / (2 * x);
	  System.out.println("Two Distinct Real Roots Exists: ="+root1);
	  }
	  else if(disc < 0)
	  {	System.out.println("Imaginary Roots");

	  }
 }
}
```

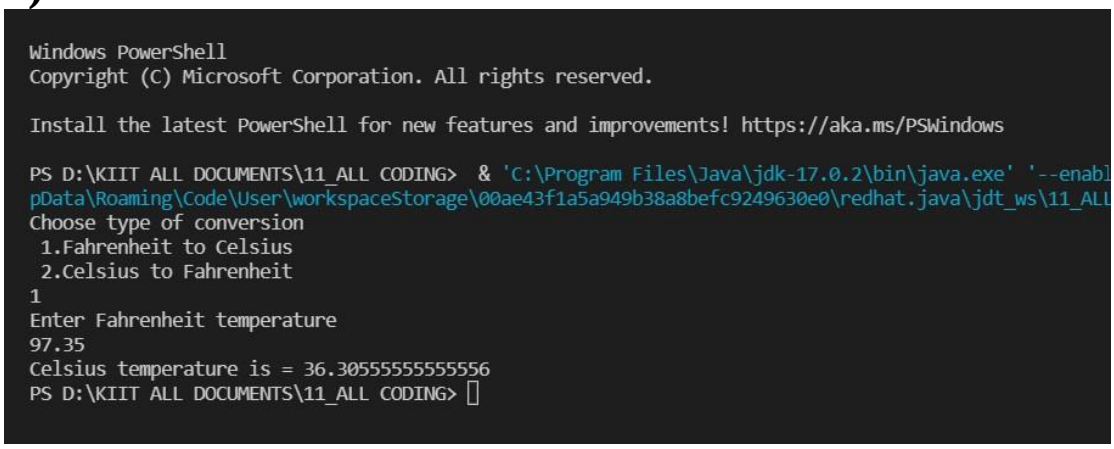
OUTPUT 4

➢ QUESTION 5- TEMPERATURE CONVERSION

```
import java.util.Scanner;
public class q_5_temp_conv
{
public static void main(String args[])
{ double farh, cel;
Scanner input = new Scanner(System.in);
System.out.println("Choose type of conversion \n 1.Fahrenheit to
Celsius\n 2.Celsius to Fahrenheit");
int ch = input.nextInt();
switch (ch)
{
case 1: System.out.println("Enter Fahrenheit temperature");
farh = input.nextDouble();
cel = (farh - 32) * 5 / 9;
System.out.println("Celsius temperature is = " + cel);
break;
case 2: System.out.println("Enter Celsius temperature");
cel = input.nextDouble();
farh = ((9 * cel) / 5) + 32;
System.out.println("Fahrenheit temperature is = " + farh);
break;
default: System.out.println("please choose valid choice");
}
}
   }
```

OUTPUT

1)FARH TO CEL

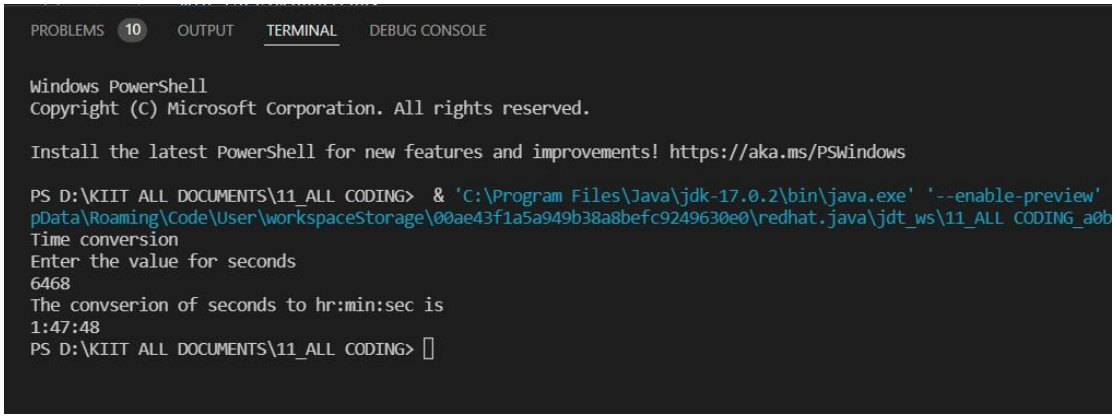


2)CEL TO FARH

➢ QUESTION 6- SECONDS TO HOURS,MINUTES AND SECONDS

```
import java.util.Scanner;

public class q_6_sec_to_hr_min_sec
{
   public static void main(String[] args)
   {
      System.out.println("Time conversion");
      System.out.println("Enter the value for seconds");
      int sec1,hr,min,sec2;
      Scanner input = new Scanner(System.in);
      sec1=input.nextInt();
      hr=sec1/3600;
      min=(sec1%3600)/60;
      sec2=sec1%60;

      System.out.println("The convserion of seconds to hr:min:sec is ");
      System.out.println(hr+":"+min+":"+sec2);

   }
}
```

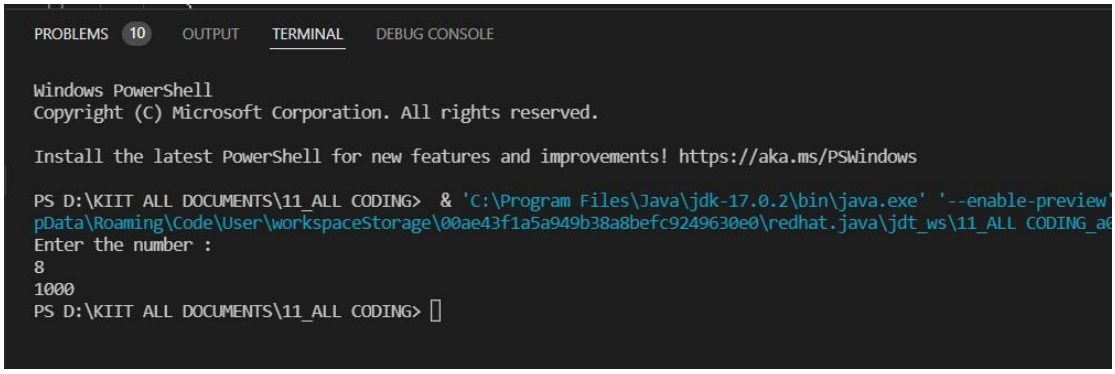
OUTPUT



➢ QUESTION 7- DECIMAL TO BINARY

```
import java.util.Scanner;

public class q_7_dec_bina
{
   public static void main(String args[]){
      Scanner input=new Scanner(System.in);
      int n;
      int[] bnum=  new int[1000];
      int i = 0;
      System.out.println("Enter the number :");
      n=input.nextInt();
      while (n > 0)
      {
         bnum[i] = n % 2;
         n = n / 2;
         i++;
      }
      for (int j = i - 1; j >= 0; j--)

         System.out.print(bnum[j]);
   }
}
```

OUTPUT



➢ QUESTION 8- SUM OF DIGITS OF AN INTEGER

```
import java.util.Scanner;

public class q_8_sum_dig
{
   public static void main(String[] args)
   {
      System.out.println("Enter a number");
      int num;
      int digit; //number to store last digit
      int sum =0; // number to store sum of digit
      Scanner input = new Scanner(System.in);
      num = input.nextInt();

      while(num>0)
      {
         digit=num%10;
         sum+=digit;
         num=num/10;
      }
      System.out.println("The sum of digits are: " + sum);
   }
}
```

OUTPUT

➢ QUESTION 9- CHECK PRIME

```
import java.util.Scanner;
public class q_9_prime_check {
   public static void main(String[] args)
   {
      System.out.println("Enter a number");
      int num;
      int isPrime =1;
      Scanner input = new Scanner(System.in);
      num=input.nextInt();
      if(num == 0 || num==1)
      {
         System.out.println("Not a prime number");
      }
      for(int i=2; i*i<num;i++)
         {
            if(num%i==0)
            {
               isPrime=0;
            }
         }
         if(isPrime==1)
         {
            System.out.println("The number is prime number");
         }
         else
         {
            System.out.println("The number is not prime number");
         }
      }
```

}

OUTPUT


PROBLEMS 10
OUTPUT
TERMINAL
DEBUG CONSOLE
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS D:\KIIT ALL DOCUMENTS\11_ALL CODING> & 'C:\Program Files\Java\jdk-17.0.2\bin\java.exe' '--enable-preview'
pData\Roaming\Code\User\workspaceStorage\00ae43f1a5a949b38a8befc9249630e0\redhat.java\jdt_ws\11_ALL CODING_a0b5
Enter a number
11
The number is prime number
PS D:\KIIT ALL DOCUMENTS\11_ALL CODING>

END