```
Name: Pradeep Patil
Batch: B
Mail id: pradippatil719@gmail.com
//Q 1 Wap to convert Fahrenheit to Celsius in Java using formula given below
// ^{\circ}C = (^{\circ}F - 32) / (9/5)
import java.util.Scanner;
public class Question01 {
       public static void main(String[] args) {
              Scanner s=new Scanner(System.in);
              System.out.println("Enter the temperature in Fahrenheit");
              float temp=s.nextFloat();
              float temp2=(temp-32)*5/9;
              System.out.printf("The temperature in celsius is: %5.2f",temp2);
              s.close();
       }
}
                   🔐 Problems 🏿 Javadoc 🔼 Declaration 🗏 Console 🗵 🐐 Debug
                   <terminated> Question01 (5) [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bin\javaw
                   Enter the temperature in Fahrenheit
                   112
                   The temperature in celsius is: 44.44
//Q 2 wap to check a given number is armstrong or not i.e. 153 = 1*1*1 + 5*5*5+3*3*3
import java.util.Scanner;
public class Question02 {
       public static void main(String[] args) {
              Scanner s=new Scanner(System.in);
              System.out.println("Enter the number");
              int a=s.nextInt();
              int temp=a;
              int b,c;
              int sum=0;
              while(a>0)
              {
                     b=a%10;
                     c=b*b*b;
                     sum=sum+c;
                     a=a/10;
              }
              a=temp;
              if(a==sum) System.out.println("Given number is armstrong");
```

```
else System.out.println("Given number is not armstrong");
s.close();
}

Problems Javadoc Declaration Console ×
<terminated > Question02 (4) [Java Application] C:\Progran
Enter the number

153

Given number is armstrong

Enter the number is armstrong

Given number is not armstrong
```

```
//Q 3 Rajan went to a movie with his friends in a multiplex theatre and during break time he bought
pizzas, puffs and cool drinks. Consider the following prices:
//Rs.100/pizza
//Rs.20/puffs
//Rs.10/cooldrink
//Generate a bill for What Rajan has bought.
import java.util.Scanner;
public class Question03 {
       static float Bill details(int x,int y,int z)
       {
               System.out.println("Bill details");
               System.out.println("No. of pizzas: "+x);
               System.out.println("No. of pizzas: "+y);
               System.out.println("No. of pizzas: "+z);
               return (x*100)+(y*20)+(z*10);
       }
       public static void main(String[] args) {
               Scanner s=new Scanner(System.in);
               System.out.println("Enter the number of pizzas bought");
               int a=s.nextInt();
               System.out.println("Enter the number of puffs bought");
               int b=s.nextInt();
               System.out.println("Enter the number of cold drinks bought");
               int c=s.nextInt();
               System.out.print("Total price:"+Bill_details(a,b,c)+"\nThank you!! Visit Again!!");
               s.close();
       }
}
```

```
Reproblems ■ Javadoc ■ Declaration ■ Console × ● Debug

<terminated > Question03 (4) [Java Application] C\Program Files\Java\jdk-18.0.2.1\t

Enter the number of pizzas bought

10

Enter the number of puffs bought

12

Enter the number of cold drinks bought

5

Bill details

No. of pizzas: 10

No. of pizzas: 12

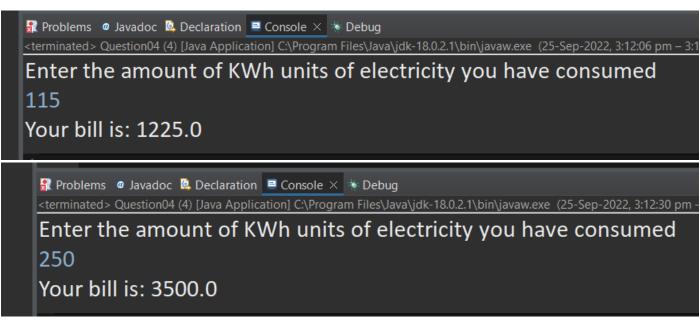
No. of pizzas: 5

Total price :1290.0

Thank you !! Visit Again !!
```

//Q 4 Given an integer U denoting the amount of KWh units of electricity consumed, the task is to calculate the electricity bill with the help of the below charges:

```
//1 to 100 units – Rs. 10/unit
//100 to 200 units - Rs. 15/unit
//200 to 300 units - Rs. 20/unit
//above 300 units - Rs. 25/unit
import java.util.Scanner;
public class Question04 {
       static float Bill details(float x)
       {
               if(x>=1 \&\& x<=100)
               {
                      return (x*10);
               else if(x>100 && x<=200)
                      return ((x-100)*15+1000);
               else if(x>200 && x<=300)
                      return ((x-200)*20+2500);
               }
               else
               {
                      return ((x-300)*25+4500);
               }
       }
```



//Q 5 Write a java program that define a sorted array of size N and an integer K, find the position at which //present in the array using binary search. import java.util.Arrays; import java.util.Scanner; public class Question05 { public static void main(String[] args) { Scanner s=new Scanner(System.in); System.out.println("Enter the 5 numbers"); int a[]=new int[5]; for(int i=0;i<a.length;i++) { a[i]=s.nextInt(); Arrays.sort(a); System.out.println("Enter the number you want to search"); int n=s.nextInt(); System.out.print("Sorted array is : "); for(int e:a)

System.out.print(e+" ");

```
int count=0;
       int first=0;
       int last=a.length-1;
       int mid=(first+last)/2;
       while(first<=last)
               if(a[mid]<n) first=mid+1;</pre>
               else if(a[mid]==n)
                       System.out.println("\nRecord found at index of : "+mid);
                       count=1;
                       break;
                       }
               else last=mid-1;
               mid=(first+last)/2;
       }
       if(count==0) System.out.println("\nRecord not found");
       s.close();
}
```

}

```
R Problems ② Javadoc ② Declaration ② Console × ③ Debug

<terminated > Question05 (4) [Java Application] C:\Program Files\Java\jdk-18.0.2.1\bit

Enter the 5 numbers

5

9

1

12

4

Enter the number you want to search

4

Sorted array is: 1 4 5 9 12

Record found at index of: 1
```

```
//Q 6 write a java program and define an array, print all the elements which are leaders.

//A Leader is an element that is greater than all of the elements on its right side in the array. import java.util.Scanner; public class Question06 {

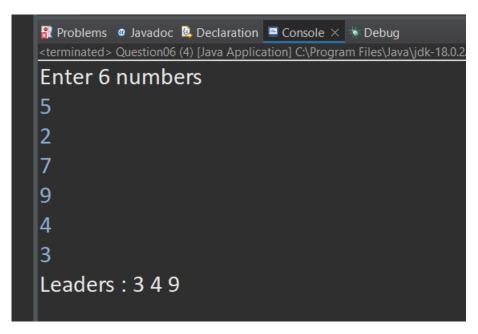
public static void main(String[] args) {

Scanner s=new Scanner(System.in);

int a[]=new int[6];
```

```
System.out.println("Enter 6 numbers");
        for(int i=0;i<a.length;i++)</pre>
        {
               a[i]=s.nextInt();
        int leader=a[a.length-1];
        System.out.print("Leaders : ");
        System.out.print(leader+" ");
        for(int i=a.length-2;i>=0;i--)
        {
               if(leader<a[i])
                        leader=a[i];
                        System.out.print(leader+" ");
               }
        }
        s.close();
}
```

}



//Q 7 Given two strings a and b consisting of lowercase characters. The task is to check whether two given strings are an anagram of each other or not. An anagram of a string is another string that contains the same characters, only the order of characters can be different.

```
//For example, abc and bca are an anagram of each other. import java.util.Arrays; import java.util.Scanner; public class Question07 {

public static void main(String[] args) {

Scanner s=new Scanner(System.in);

System.out.println("Enter the 1st word");

String a=s.nextLine();

System.out.println("Enter the 2nd word");
```

```
String b=s.nextLine();
    char c[]=a.toCharArray();
    char d[]=b.toCharArray();
    Arrays.sort(c);
    Arrays.sort(d);
    if(Arrays.equals(c, d)) System.out.println("Strings are anagram");
    else System.out.println("Strings are not anagram");
    s.close();
}
```

