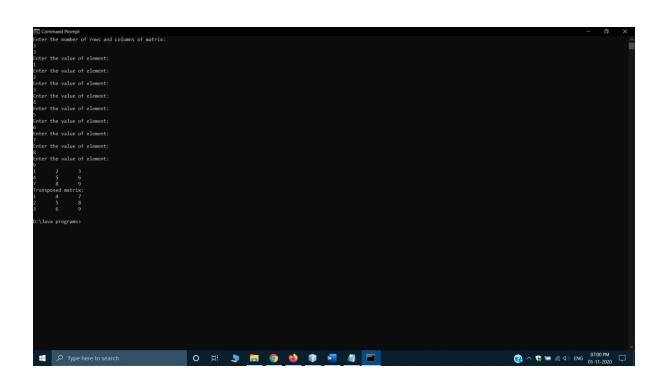
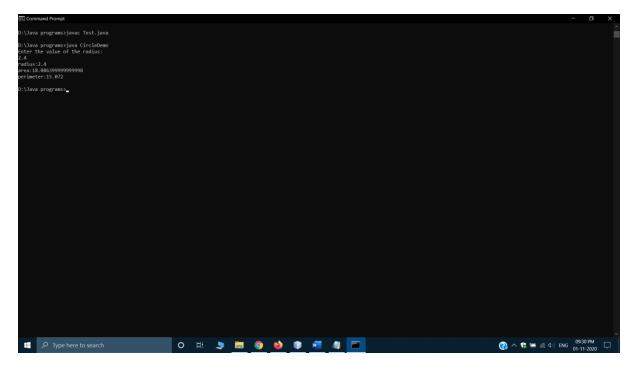
```
ANS 1:
import java.util.Scanner;
class Prac
{
 public static void main(String sss[]){
    Scanner sc=new Scanner(System.in);
    int arr1[][],arr2[][],row,column,val;
    System.out.println("Enter the number of rows and columns of matrix:");
    row=sc.nextInt();
    column=sc.nextInt();
    arr1=new int[row][column];
    arr2=new int[row][column];
    for(int i=0;i<row;i++){</pre>
      for(int j=0;j<column;j++){</pre>
         System.out.println("Enter the value of element:");
         val=sc.nextInt();
         arr1[i][j]=val;
      }
    }
    for(int i=0;i<row;i++){</pre>
      for(int j=0;j<column;j++){</pre>
         System.out.print(arr1[i][j]+"\t");
      }
      System.out.print("\n");
    }
    for(int i=0;i<row;i++){</pre>
      for(int j=0;j<column;j++){</pre>
         arr2[i][j]=arr1[j][i];
      }
    }
```

```
System.out.println("Trsnsposed matrix:");
for(int i=0;i<row;i++){
    for(int j=0;j<column;j++){
        System.out.print(arr2[i][j]+"\t");
    }
    System.out.print("\n");
}</pre>
```



```
ANS 2:
```

```
import java.util.Scanner;
class CircleDemo{
  static Scanner sc=new Scanner(System.in);
  static double radius, area, perimeter;
  static void getr(){
    System.out.println("Enter the value of the radius:");
    radius=sc.nextDouble();
  }
  static void area(){
    area=3.14*radius*radius;
  }
  static void perimeter(){
    perimeter=2*3.14*radius;
  }
  static void printd(){
    System.out.println("radius:"+radius);
    System.out.println("area:"+area);
    System.out.println("perimeter:"+perimeter);
  }
  public static void main(String args[]){
    getr();
    area();
    perimeter();
    printd();
  }
}
```



ANS 3:

```
import java.util.Scanner;
class actor{
int no_of_movies;
int years_of_exp;
String name;
int id;
double avg=0;
Scanner sc = new Scanner(System.in);
void accept(){
System.out.print("NAME :");
name = sc.next();
System.out.print("ID :");
id = sc.nextInt();
System.out.print("NO OF MOVIES :");
no_of_movies = sc.nextInt();
System.out.print("YEARS OF EXPERIENCE :");
years_of_exp = sc.nextInt();
```

```
avg=(double)no_of_movies/years_of_exp;
}
}
class Testj{
public static void main(String ss[]){
int n;
String maxname=null;
double maxavg=0.0;
Scanner sc = new Scanner(System.in);
System.out.println("ENTER NO OF ACTORS DETAILS YOU WANT TO ENTER");
n = sc.nextInt();
actor a1[] = new actor[n];
for(int i=0;i<n;i++){
System.out.println("<----->");
System.out.println("ENTER ACTOR:"+(i+1));
a1[i] = new actor();
a1[i].accept();
}
for(int i=1;i<n;i++){
if(a1[i].avg>a1[i-1].avg){
maxavg=a1[i].avg;
maxname=a1[i].name;
}else{
maxavg=a1[i-1].avg;
maxname=a1[i-1].name;
}
}
System.out.println("Actor with maximum average of "+ maxavg +" is "+ maxname);
```

```
}
```

```
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```

ANS 5:

```
import java.util.Scanner;
class Prac
{
    public static void main(String sss[])
    {
        Scanner sc=new Scanner(System.in);
        int full[][],pos[],neg[],row,column,val,c1=0,c2=0,c3=0;
        int temp1=0,temp2=0,temp3=0;
        System.out.println("Enter the number of rows and columns:");
        row=sc.nextInt();
        column=sc.nextInt();
        full=new int[row][column];
        pos=new int[row*column];
```

```
neg=new int[row*column];
for(int i=0;i<row;i++){</pre>
  for(int j=0;j<column;j++){</pre>
    System.out.println("Enter the value of element:");
    val=sc.nextInt();
    full[i][j]=val;
  }
}
for(int i=0;i<row;i++){</pre>
  for(int j=0;j<column;j++){</pre>
    if(full[i][j]>0){
       pos[temp1]=full[i][j];
       c1++;
       temp1++;
    }
    else if(full[i][j]<0){
       neg[temp2]=full[i][j];
       c2++;
       temp2++;
    }
    else if(full[i][j]==0){
       c3++;
       temp3++;
    }
  }
}
System.out.println("positive numbers array:");
for(int i=0;i<temp1;i++){</pre>
  System.out.println(pos[i]);
}
System.out.println("negative numbers array:");
```

```
ANS 6:

import java.util.Scanner;

class Testj{

public static void main(String args[]){

Scanner sc=new Scanner(System.in);

String str;

int count1=0,count2=0,count3=0;

System.out.println("Enter the string:");
```

```
str=sc.nextLine();
    str=str.toLowerCase();
    System.out.println("Entered string:"+str);
    for(int i=0;i<str.length();i++){</pre>
      switch (str.charAt(i)) {
         case 'a':
         case 'e':
         case 'i':
         case 'o':
         case 'u':
           count1++;
           break;
         case ' ':
           count2++;
           break;
         default:
           count3++;
           break;
      }
    }
    System.out.println("vowels:"+count1);
    System.out.println("consonants:"+count3);
    System.out.println("spaces:"+count2);
  }
}
```

