1.Complete the code segment to help Ragav , find the highest mark and average mark secured by him in "s" number of subjects.

import java.util.Scanner;

public class Exercise1\_5{

    public static void main(String[] args) {

     Scanner input = new Scanner(System.in);

         double mark\_avg;

         int result;

         int i;

         int s;

      //define size of array

       s = input.nextInt();

     //The array is defined "arr" and inserted marks into it.

      int[] arr = new int[s];

      for(i=0;i<arr.length;i++)

      {

    arr[i]=input.nextInt();

        }

//Initialize maximum element as first element of the array.

   //Traverse array elements to get the current max.

   //Store the highest mark in the variable result.

   //Store average mark in avgMarks.

   int temp=0,j;

   for(i=0; i < s; i++)

  {

              for(j=1; j < (s-i); j++)

      {

          if(arr[j-1] > arr[j])

          {

                          //swap elements

                          temp = arr[j-1];

                              arr[j-1] = arr[j];

                              arr[j] = temp;

                      }

               }

       }

  result=arr[s-1];

  temp=0;

  for(i=0;i<arr.length;i++)

  {

      temp +=arr[i];

  }

  mark\_avg=temp/s;

  System.out.println(result);

  System.out.print(mark\_avg);

  }

}

2.Consider First n even numbers starting from zero(0).Complete the code segment to calculate sum of  all the numbers divisible by 3 from 0 to n. Print the sum.

import java.util.Scanner;

public class Exercise1\_3 {

       public static void main(String[] args) {

       Scanner sc = new Scanner(System.in);

       int n=sc.nextInt();

      int sum=0;

//Use for or while loop do the operation.

for(int i=0;i<=n;i++)

        {

            int t = 2\*(i-1);

            if(t%3 == 0)

            {

                sum += t;

            }

        }

        System.out.print(sum);

    }

}

3.Complete the code segment to find the perimeter and area of a circle given a value of radius.

import java.util.Scanner;

public class Exercise1\_1 {

       public static void main(String[] args) {

Scanner s = new Scanner(System.in);

       double radius= s.nextDouble();

       double perimeter;

       double area;

//Calculate the perimeter

perimeter = 2 \* Math.PI \* radius;

  //Calculate the area

area = perimeter \* radius;

    System.out.println(perimeter);

    System.out.print(area/2);

       }

}

4.Complete the code segment to check whether the number is an Armstrong number or not.

import java.util.Scanner;

public class Exercise1\_4 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        int n=sc.nextInt();

        int result=0;

//Use while loop check the number is Armstrong or not.

//store the output(1 or 0) in result variable.

int remainder,temp,count=0,i;

        temp=n;

        while(temp!=0)

        {

            temp/=10;

            count++;

        }

        i=count;

        temp=n;

        while(count>0)

        {

            remainder=temp%10;

            result += Math.pow(remainder, i);

            temp/=10;

            count--;

        }

        if(n==result)

            result=1;

        else

            result=0;

        System.out.print(result);

    }

}

5.Complete the code segment to find the largest among three numbers x,y, and z. You should use if-then-else construct in Java.

import java.util.Scanner;

public class Exercise1\_2 {

       public static void main(String[] args) {

Scanner s = new Scanner(System.in);

        int x = s.nextInt();

        int y = s.nextInt();

int z = s.nextInt();

int result = 0;

//Use if...else ladder to find the largest among 3 numbers and store the largest number in a variable called result.

if( x > y && x > z)

        {

            result = x;

        }

        else if( y > x && y > z)

        {

            result = y;

        }

        else if( z > y && z > x)

        {

            result = z;

        }

        else

        {

            result = x;

        }

        System.out.print(result);

    }

}