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);
    }
}
```