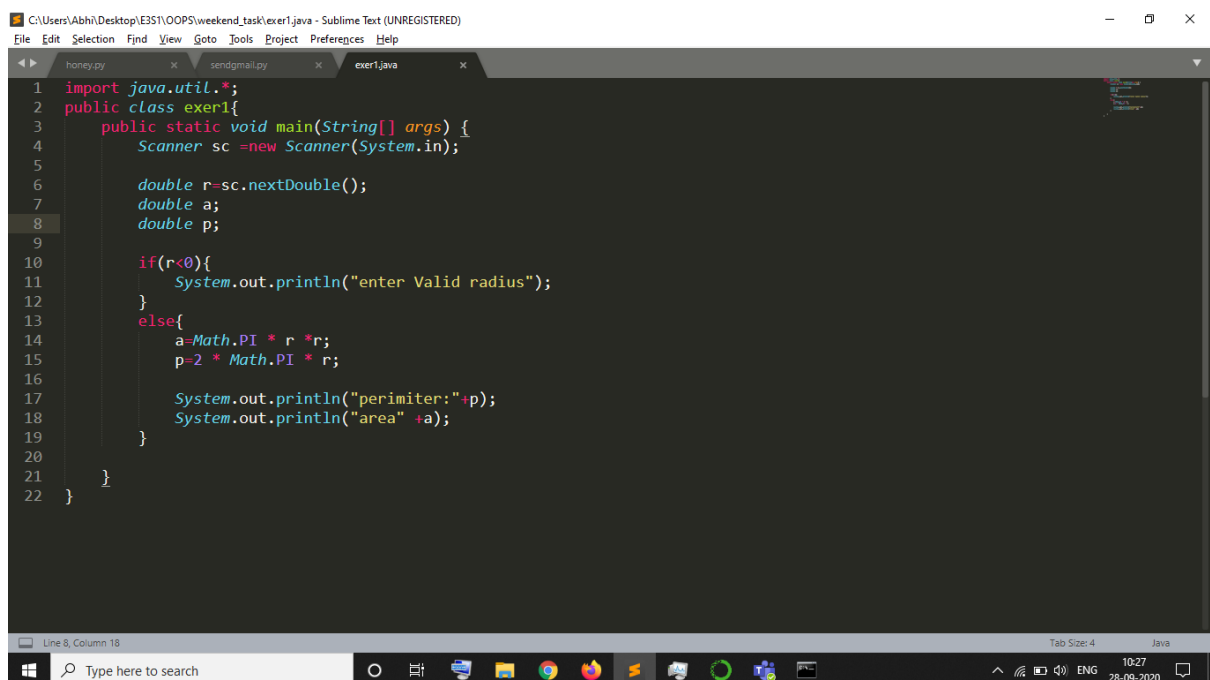


OOPS

WEEKEND_TASK 1

1.

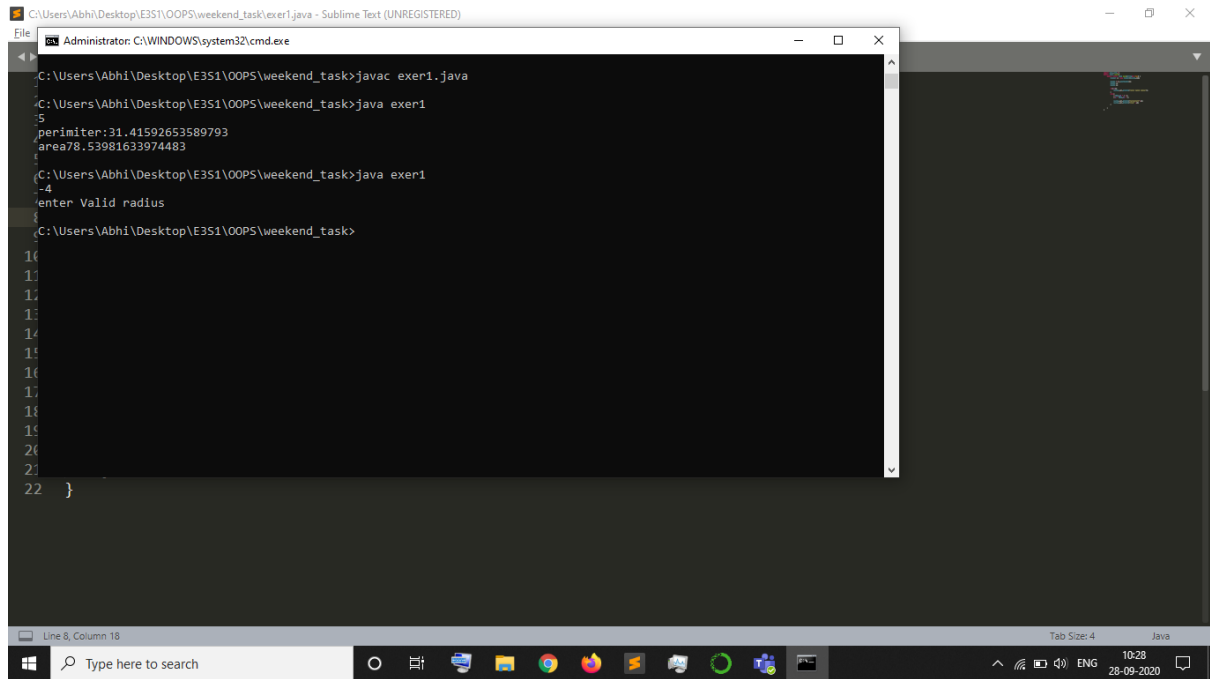
Complete the code segment to find the perimeter and area of a circle given a value of radius. You should use Math.PI constant in your program. If radius is zero or less than zero then print " please enter non zero positive number "



```
C:\Users\Abhi\Desktop\E351\OOPS\weekend_task\exer1.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

1 import java.util.*;
2 public class exer1{
3     public static void main(String[] args) {
4         Scanner sc =new Scanner(System.in);
5
6         double r=sc.nextDouble();
7         double a;
8         double p;
9
10        if(r<0){
11            System.out.println("enter Valid radius");
12        }
13        else{
14            a=Math.PI * r *r;
15            p=2 * Math.PI * r;
16
17            System.out.println("perimeter:"+p);
18            System.out.println("area" +a);
19        }
20    }
21 }
22 }
```

Line 8, Column 18 Tab Size: 4 Java

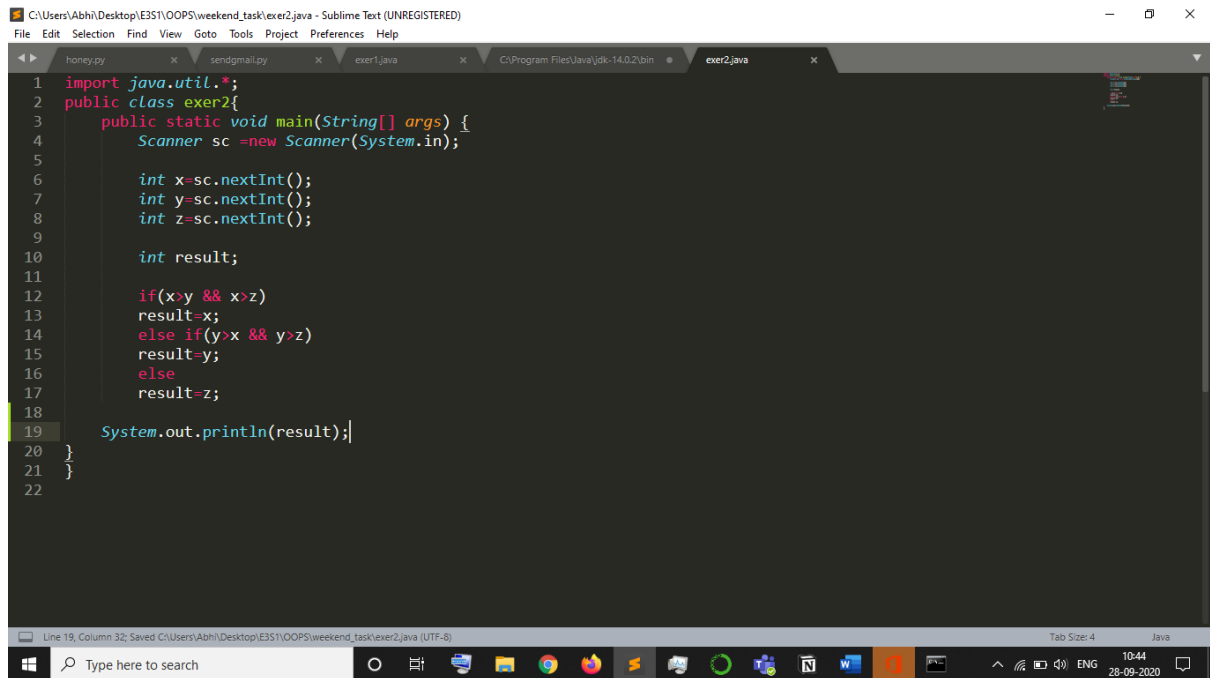


```
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>javac exer1.java
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer1
5
perimeter:31.41592653589793
area:78.53981633974483
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer1
-4
enter Valid radius
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>
```

2.

Complete the code segment to find the largest among three numbers x, y, and z.

You should use if-then-else construct in Java.



```
1 import java.util.*;
2 public class exer2{
3     public static void main(String[] args) {
4         Scanner sc =new Scanner(System.in);
5
6         int x=sc.nextInt();
7         int y=sc.nextInt();
8         int z=sc.nextInt();
9
10        int result;
11
12        if(x>y && x>z)
13            result=x;
14        else if(y>x && y>z)
15            result=y;
16        else
17            result=z;
18
19        System.out.println(result);
20    }
21 }
22 }
```

```
Administrator: C:\WINDOWS\system32\cmd.exe
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>javac exer2.java

C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer2
1
2
3
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>_
```

3.

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

```
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task\exer3.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help

1 import java.util.*;
2 public class exer3
3 {
4     public static void main(String[] args)
5     {
6         Scanner sc =new Scanner(System.in);
7
8         System.out.println("enter value of n");
9
10        int n =sc.nextInt();
11        int i,sum,j;
12        sum=0;
13        for(i=0,j=0;i<n;i++,j+=2)
14        {
15            if(j%3==0)
16                sum+=j;
17        }
18
19        System.out.println("the sum of first " +n+ "even numbers divisible by 3 is"+sum);
20    }
21 }
```

```
Administrator: C:\WINDOWS\system32\cmd.exe
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>javac exer3.java

C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer3
enter value of n
5
the sum of first Seven numbers divisible by 3 is6
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>
```

4.

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

```
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task\exer4.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
honey.py x sendmail.py x exer1.java x C:\Program Files\Java\jdk-14.0.2\bin x exer2.java x exer3.java x exer4.java x
1 import java.util.Scanner;
2 public class exer4{
3
4 public static void main(String[] args) {
5     Scanner sc = new Scanner(System.in);
6     int n = sc.nextInt();
7     int result = 0;
8     int temp = n;
9     int cubeSum = 0;
10
11     while (temp != 0) {
12         cubeSum += Math.pow(temp % 10, 3);
13         temp /= 10;
14     }
15
16     if (cubeSum == n) {
17         System.out.println(1);
18     }
19     else {
20         System.out.println(0);
21     }
22 }
23 }
```

```
Administrator: C:\WINDOWS\system32\cmd.exe
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>javac exer4.java
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer4
153
1
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer4
87
0
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>
```

5.

Complete the code segment to find the highest mark and average mark secured by Hari in "s" number of subjects.

```
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task\exer5.java - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
honey.py x sendmail.py x exer1.java x C:\Program Files\Java\jdk-14.0.2\bin x exer2.java x exer3.java x exer4.java x exer5.java x
1 import java.util.Scanner;
2 public class exer5{
3
4 public static void main(String[] args) {
5     Scanner sc = new Scanner(System.in);
6     double mark_avg = 0d;
7     int result;
8     int s;
9     // define size of array
10    s = sc.nextInt();
11    // The array is defined "arr" and inserted marks into it of integer type
12    int[] arr = new int[s];
13    for (int j = 0; j < arr.length; j++) {
14        arr[j] = sc.nextInt();
15    }
16    // get the maximum element in the array
17    result = arr[0];
18    for (int i : arr) {
19        if (i > result) {
20            result = i;
21        }
22        mark_avg += i;
23    }
24    // calculate the average marks
25    mark_avg /= arr.length;
26    System.out.println(result); // highest marks
27    System.out.println(mark_avg); // average marks
28 }
29 }
```

```
Administrator: C:\WINDOWS\system32\cmd.exe
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>javac exer5.java
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>java exer5
5
10 40 40 30 20
40
28.0
C:\Users\Abhi\Desktop\E3S1\OOPS\weekend_task>
```