

## Java Week 12: Q5

Due on 2020-12-10, 23:59 IST

Write a recursive function to print the sum of first n odd integer numbers. The recursive function should have the prototype

"int sum\_odd\_n(int n)".

**For example :**

input : 5  
output: 25

input : 6  
output : 36

Private Test cases used for evaluation

Test Case 1

Input	Expected Output	Actual Output	Status
6	36	36\n	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-12-09, 12:51 IST

Your last recorded submission was :

```
1 import java.util.*;
2 public class Question5 {
3     static int sum_odd_n(int n){
4         if(n==1)
5             return 1;
6         if (n <= 0)
7             return 0;
8     }
9     //Call the method recursively.
10    return 2*n-1 + sum_odd_n(n-1);
11 }
12 public static void main(String[] args) {
13     Scanner in=new Scanner(System.in);
14     int count=in.nextInt();
15     int r=sum_odd_n(count);
16     System.out.println(r);
17 }
18 }
```

Sample solutions (Provided by instructor)

```
1 import java.util.*;
2 public class Question5 {
3     static int sum_odd_n(int n){
4         if(n==1)
5             return 1;
6         if (n <= 0)
7             return 0;
8     }
9     return 2*n-1 + sum_odd_n(n-1);
10 }
11 public static void main(String[] args) {
12     Scanner in=new Scanner(System.in);
13     int count=in.nextInt();
14     int r=sum_odd_n(count);
15     System.out.println(r);
16 }
17 }
```

### Course outline

How does an NPTEL online course work?

Week 0 : Assignment 0

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

Week 7 :

Week 8 :

Week 9 :

Week 10 :

Week 11 :

Week 12 :

• Lecture 56 : Case Study - I

• Lecture 57 : Case Study - II

• Lecture 58 : Case Study - III

• Lecture 59 : Case Study - IV

• Lecture 60 : Case Study - V

• Quiz: Assignment 12

• Java Week 12: Q1

• Java Week 12: Q2

• Java Week 12: Q3

• Java Week 12: Q4

• Java Week 12: Q5

• Feedback For Week 12

Solution

DOWNLOAD VIDEOS

Text Transcripts

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11 - 8PM - 10 PM)