


<https://swayam.gov.in>

https://swayam.gov.in/nc_details/NPTEL

200801168@rajalakshmi.edu.in ▾

NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Problem Solving Through Programming In C (course)**

Week 3 : Programming Assignment 1

Due on 2023-08-17, 23:59 IST

Write a C Program to calculates the area (floating point number with two decimal places) of a Circle given it's radius (integer value). The value of Pi is 3.14.

[Marks for Week 3 Programming assignments will not be evaluated finally. This is for users to get familiar with programming in google course builder platform]

Click to register for Certification exam

(https://examform.nptel.ac.in/2023-10/exam_form/dashboard)

If already registered, click to check your payment status

Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

☐ **Lecture 11 : Assignment Statement and**

Private Test cases used for evaluation

Test Case 1

50

Area of a circle
= 7850.00

Actual Output

Area of a circle
= 7850.00

Status

Passed

Test Case 2

7

Area of a circle
= 153.86

Area of a circle
= 153.86

Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-08-09, 23:43 IST

Your last recorded submission was :

```
1 #include <stdio.h>
2 #define PI 3.14
3 void main()
4 {
5     int radius;
6     float area;
7     /* Enter the radius of a circle */
8     scanf("%d", &radius);
9
10    /*Here the first part and the last part of the program is already written.
11    You have to write only the middle portion by carefully considering the
12    variables used. You can use more variables if required but no other input and
13    statements can be used as the test input and corresponding output is already
14    There are two public test cases which you can see and check whether your prog
```

Operators in
C (unit?
unit=36&lesso
n=37)

○ Lecture 12 :
Arithmetic
Expressions
and Relational
Expressions
(unit?
unit=36&lesso
n=38)

○ Lecture 13 :
Logical
Operators
and Change in
Control Flow
(unit?
unit=36&lesso
n=39)

○ Lecture 14 :
Use of Logical
Operators in
Branching
(unit?
unit=36&lesso
n=40)

● Lecture 15 :
Branching : IF
- ELSE
Statement
(unit?
unit=36&lesso
n=41)

● Quiz: Week 3 :
Assignment 3
(assessment?
name=224)

● **Week 3 :
Programmin
g Assignment
1
(/noc23_cs12
1/progassign
ment?
name=225)**

● Week 3 :
Programming
Assignment 2
(/noc23_cs121
/progassignm

```

15 There is also one or two private test cases, the result of which you cannot
16 see and which are used for evaluation purpose*/
17 /*For example in this program the middle part can be written as:
18 area = PI * radius * radius;
19 in the space provided */
20 area=PI*radius*radius;
21 printf("Area of a circle = %5.2f", area);
22 }

```

Sample solutions (Provided by instructor)

```

1 #include <stdio.h>
2 #define PI 3.14
3 void main()
4 {
5     int radius;
6     float area;
7     /* Enter the radius of a circle */
8     scanf("%d", &radius);
9
10    /*Here the first part and the last part of the program is already written.
11    You have to write only the middle portion by carefully considering the
12    variables used. You can use more variables if required but no other input and
13    statements can be used as the test input and corresponding output is already
14    There are two public test cases which you can see and check whether your prog
15    There is also one or two private test cases, the result of which you cannot
16    see and which are used for evaluation purpose*/
17    /*For example in this program the middle part can be written as:
18    area = PI * radius * radius;
19    in the space provided */
20    area = PI * radius * radius;
21    printf("Area of a circle = %5.2f", area);
22 }

```

ent?
name=226)

☒ Week 3 :
Programming
Assignment 3
(/noc23_cs121
/progassignm
ent?
name=227)

☒ Week 3 :
Programming
Assignment 4
(/noc23_cs121
/progassignm
ent?
name=228)

☐ Feedback
Form of Week
3 (unit?
unit=36&lesso
n=229)

☐ Assignment 3
Solution (unit?
unit=36&lesso
n=43)

Week 4 ()

Week 5 ()

Week 6 ()

**DOWNLOAD
VIDEOS ()**

Books ()

**Text
Transcripts ()**

**Problem
Solving
Session -
July 2023 ()**