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200801199@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]

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Course outline

**How does an
NPTEL
online
course
work? ()**

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

**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 2023-08-16, 00:27 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
```

Week 6 ()**DOWNLOAD
VIDEOS ()****Books ()****Text
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Solving
Session -
July 2023 ()**

```

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
22 printf("Area of a circle = %5.2f", area);
23 }

```

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);
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```

