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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in C++ (course)

Announcements (announcements) About the Course (preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

- Module 21 :

 Inheritance : Part
 I (Lecture 36)
 (unit?

 unit=64&lesson=65)
- Module 22 : Inheritance : Part II (Lecture 37) (unit? unit=64&lesson=66)
- Module 23 : Inheritance : Part III (Lecture 38)

W5 Programming-Qs1

Due on 2020-10-22, 23:59 IST

Consider the following program. Fill in the blank at LINE-1 for appropriate inheritance. Fill in the blanks at LINE-2 and LINE-3 to complete the function definition such that it can satisfy the given test cases.

Private Test cases used for evaluation

InputExpected Output Actual Output Status

Test Case 1

1	4186.67, 12	4186.67, 12	Passe
0	56	56	d

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-10-22, 23:29 IST

Your last recorded submission was :

```
1 #include <iostream>
 2 using namespace std;
 4
   #define PI 3.14
   class Volume {
   public:
        double getValue(int r) { return (4 * PI * r * r * r / 3); }
 9
10
   class SurfaceArea {
11
         double getValue(int r) { return 4 * PI * r * r; }
   class Sphere : public Volume ,public SurfaceArea{
                                                                                    // LINE-1
         int _r;
16
17
   public:
        Sphere(int a) : _r(a) { }

double getVolume() { return Volume::getValue(_r); } // LINE-2

double getSurfaceArea() { return SurfaceArea::getValue(_r); } // LINE-3
18
19
20
```

```
21 };
22
23 int main() {
    int a;
    cin >> a;
26
27     Sphere s(
    cout << s;
29
29
20     return 0;
   (unit?
   unit=64&lesson=67)
                                          int a;
cin >> a;
 Module 24 :
   Inheritance: Part
                                          Sphere s(a);
cout << s.getVolume() << ", " << s.getSurfaceArea();</pre>
   IV (Lecture 39)
   (unit?
                                30
31 }
   unit=64&lesson=68)
                                          return 0;
 Module 25 :
   Inheritance: Part
   V (Lecture 40)
   (unit?
   unit=64&lesson=69)

    Lecture Materials

   (unit?
   unit=64&lesson=70)
 Quiz :
   Assignment 5
   (assessment?
   name=153)
 W5_Programming-
   (/noc20_cs57/progassignment?
   name=149)
 W5_Programming-
   Qs2
   (/noc20_cs57/progassignment?
   name=156)
 W5_Programming-
   Qs3
   (/noc20 cs57/progassignment?
   name=157)
Feedback For
   Week 5 (unit?
   unit=64&lesson=71)
Week 6
Week 7
DOWNLOAD
VIDEOS
Text Transcripts
Assignment
Solution
```

Books

Live Interactive Session