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



Register for
Certification
exam

## W5\_Programming\_Qs-1

Due on 2023-03-02, 23:59 IST

(https://examform\_nptel.ac.in/2023 01/exam form/dashboard) (https://examform nptel.ac.in/2023 01/exam form/dashboard)

- Fill in the blank at LINE-1 with appropriate initializer list,
- Fill in the blanks at LINE-2 and LINE-3 to complete the return statements. The program must satisfy the given test cases.

## Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Lecture 21 :

 Inheritance:
 Part 1
 (Inheritance
 Semantics)
 (unit?

 unit=62&lesson=63)

## Sample Test Cases

	Input	Output
Test Case 1	5	314, 522.025
Test Case 2	3	113.04, 112.757
Test Case 3	10	1256, 4176.2

The due date for submitting this assignment has passed.

0 out of 0 tests passed.

You scored 0.0/100.

## Assignment submitted on 2023-02-25, 12:07 IST

Your last recorded submission was :

```
1 #include <iostream>
   using namespace std;
   class Radius{
        public:
              int radius;
 5
 6
             Radius(int r) : radius(r) { }
 7
8
   };
class Volume : public Radius{
 9
        public:
             Volume(int _r) : Radius(_r){}
double getVal(){ return 1.33 * 3.14 * radius * radius * radius; }
10
11
12
   class Area : public Radius{
13
14
             Area(int _r) : Radius(_r){}
double getVal(){ return 4 * 3.14 * radius * radius; }
15
16
```

```
17 | };
18 | class Sphere : public Volume, public Area{
Calculation Lecture 22:
  Inheritance:
                          19
                          20
21
                                       Sphere(int _r) :Volume(_r),Area(_r){}
                                                                                         //LINE-1
  Part 2 (Data
  Member &
                          22
                                       double getVolume(){ return Volume::getVal(); } //LINE-2
  Member
                          23
24
                                       double getArea(){ return Area::getVal(); } //LINE-3
  Function -
                          25
26
27
                             };_r)
int main(){
  Override &
  Overload)
                                   int a;
                          28
                                   cin >> a;
  (unit?
                          29
                                   Sphere s(a);
  unit=62&lesson=64)
                                   cout << s.getArea() << ", " << s.getVolume();</pre>
                          30
                          31
Clecture 23:
                          32 }
  Inheritance:
  Part 3
  (Constructor &
  Destructor -
  Object
  Lifetime) (unit?
  unit=62&lesson=65)
Calculation Lecture 24:
  Inheritance:
  Part 4: Phone
  Hierarchy
  (unit?
  unit=62&lesson=66)
Clecture 25:
  Inheritance:
  Part 5: private
  & protected
  Inheritance
  (unit?
  unit=62&lesson=67)
Tutorial 05 :
  Mixing C and
  C++ Code:
  Part 1: Issues
  and
  Resolutions
  (unit?
  unit=62&lesson=68)
Week 5
  Lecture
  Material (unit?
  unit=62&lesson=69)
Quiz: Week 5 :
  Assignment 5
  (assessment?
  name=185)
W5_Programming_Qs-
  (/noc23_cs50/progassignment?
  name=182)
```

- W5\_Programming\_Qs-2 (/noc23\_cs50/progassignment? name=183)
- W5\_Programming\_Qs-3 (/noc23\_cs50/progassignment? name=184)
- Week 5
  Feedback
  Form (unit?
  unit=62&lesson=70)
- Assignment 5Solution (unit?unit=62&lesson=71)

Week 6 ()

Week 7 ()

Week 8 ()

Download Videos ()

Books ()

Transcripts ()

Problem Solving Session ()

