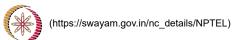
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in C++ (course)

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

### Week 6

- Module 26 :
   Dynamic Binding
   : Part I (Lecture
   41) (unit?
   unit=72&lesson=73)
- Module 27 :
   Dynamic Binding
   (Polymorphism) :
   Part II (Lecture
   42) (unit?
   unit=72&lesson=74)

# W6\_Programming-Qs4

Due on 2020-10-29, 23:59 IST

Fill in the blanks at LINE-1 with proper access modifier, at LINE-2 so that global function

addition can access private data member of Base class and at LINE-3 to call Base class  ${\tt show}$  ( )

function such that it matches the given test cases. Do not change any other part of the code.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	5 1 0	15 10	15 10	Passe d

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

### Assignment submitted on 2020-10-29, 23:14 IST

Your last recorded submission was :

```
#include <iostream>
   using namespace std;
 4
   class Base {
        int b;
 6
   public:
        Base(int n) : b(n) { }
        virtual void show() {
   cout << b << " ";</pre>
 8
                                          // LINE-1
 9
10
11
       friend void addition(Base &, Base &);
                                                           // LINE-2
  };
12
13
   class Derived : public Base {
14
15
        int d;
```

```
12/17/2020
                              16 public:
Module 28 :
                              17
18
                                       Derived(int m, int n) : Base(m), d(n) { }
  Dynamic Binding
                                       void show() {
  (Polymorphism):
                                           Base::show();
cout << d << " ";
                              19
                                                                          // LINE-3
                              20
21
22
  Part III (Lecture
  43) (unit?
                                  };
  unit=72&lesson=75)
                              23
24
25
26
27
28
29
30
31
                                  void addition(Base &x, Base &y) {
Module 29:
                                       x.b = x.b + y.b;
  Dynamic Binding
  (Polymorphism)
                                  int main() {
                                       int m, n;
  Part IV (Lecture
                                       cin >> m >> n;
  44) (unit?
                              32
33
34
  unit=72&lesson=76)
                                       Base *t1 = new Derived(m, n);
Base *t2 = new Base(n);
O Module 30:
                              35
36
                                       addition(*t1, *t2);
  Dynamic Binding
                                       t1->show();
  (Polymorphism):
                              37
  Part V (Lecture
                              38
                                       return 0;
                              39<sup>1</sup>}
  45) (unit?
  unit=72&lesson=77)

    Lecture Materials

  (unit?
  unit=72&lesson=78)
Quiz :
  Assignment 6
  (assessment?
  name=163)
W6_Programming-
  (/noc20 cs57/progassignment?
  name=164)
W6_Programming-
  (/noc20_cs57/progassignment?
  name=165)
W6_Programming-
  (/noc20 cs57/progassignment?
  name=166)
```

# W6 Programming-

(/noc20\_cs57/progassignment?

name=167)

 Feedback For Week 6 (unit? unit=72&lesson=79)

#### Week 7

Week 8

# DOWNLOAD VIDEOS

# **Text Transcripts**

Assignment Solution

**Books** 

Live Interactive Session

Programming Test (11th Dec): Session-1 (10.00AM -11.00AM)

Programming Test (11th Dec): Session-2 (8.00PM - 9.00PM)