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

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-Qs1

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

Consider the program below. Fill in the blank at LINE-1 with abstract function definition for `fun()`, and at LINE-2 and LINE-3 fill in the blanks with appropriate initialization list so that it satisfies 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
2 2 2	22 44	22 44	Passed

Test Case 1

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, 22:52 IST

Your last recorded submission was :

```

1 #include <iostream>
2 using namespace std;
3
4 class Base {
5 public:
6     virtual void fun()=0; // LINE-1: Define fun as pure virtual function
7 };
8
9 class Derived1 : public Base {
10     int d1;
11 public:
12     Derived1(int n) :d1(n){ } // LINE-2: Complete constructor definition
13     void fun() {
14         cout << d1 << " ";
15     }
16 };
17

```

Module 28 :
Dynamic Binding
(Polymorphism) :
Part III (Lecture
43) (unit?
unit=72&lesson=75)

Module 29 :
Dynamic Binding
(Polymorphism)
Part IV (Lecture
44) (unit?
unit=72&lesson=76)

Module 30 :
Dynamic Binding
(Polymorphism) :
Part V (Lecture
45) (unit?
unit=72&lesson=77)

Lecture Materials
(unit?
unit=72&lesson=78)

Quiz :
Assignment 6
(assessment?
name=163)

W6_Programming-
Qs1
(/noc20_cs57/progassignment?
name=164)

W6_Programming-
Qs2
(/noc20_cs57/progassignment?
name=165)

W6_Programming-
Qs3
(/noc20_cs57/progassignment?
name=166)

W6_Programming-
Qs4
(/noc20_cs57/progassignment?
name=167)

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

Week 7

Week 8

```

18 class Derived2 : public Base {
19     int d2;
20 public:
21     Derived2(int n) : d2(n*2) { } // LINE-3: Complete constructor definition
22     void fun() {
23         cout << d2 << " ";
24     }
25 };
26
27 int main() {
28     int i;
29     cin >> i;
30
31     Base *b1 = new Derived1(i);
32     Base *b2 = new Derived2(i);
33
34     b1->fun();
35     b2->fun();
36
37     return 0;
38 }

```

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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)**