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navnathdeshmukh363@gmail.com ▾

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



Register for
Certification
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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 ()

☐ Lecture 26 :
Polymorphism:
Part 1: Type
Casting (unit?
unit=72&lesson=73)

W6_Programming_Qs-3

Due on 2023-03-09, 23:59 IST

Consider the following program. Fill in the blanks as per the instructions given below:

- Fill in the blanks at LINE-1 with an appropriate keyword.
- Fill in the blank at LINE-2 with an appropriate function declaration.
- Fill in the blank at LINE-3 with an appropriate statement.

such that it will satisfy the given test cases.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	7 6	13 6	13 6	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-02-28, 20:34 IST

Your last recorded submission was :

```
1 #include<iostream>
2 using namespace std;
3 class B{
4     protected:
5         int s;
6     public:
7         B(int i=0) : s(i){}
8
9         virtual ~B(){ } //LINE-1
10        virtual int fun(int x) = 0; //LINE-2
11 };
12
13 class D : public B{
14     public:
15         D(int i) : B(i) {}
16         ~D();
17         int fun(int x){
18             return s+x;
19         }
20 };
21 class Z{
```

- Lecture 27 :
Polymorphism:
Part 2: Static
and Dynamic
Binding (unit?
unit=72&lesson=74)

```

22     public:
23     void fun(int a, int b){
24         B *t = new D(a); //LINE-3
25         int i = t->fun(b);
26         cout << i << " ";
27         delete t;
28     }
29 };
30
31 D::~~D(){ cout << --s << " "; }

```

- Lecture 28 :
Polymorphism:
Part 3:
Abstract Base
Class (unit?
unit=72&lesson=75)

```

32
33
34 int main(){
35     int i, j;
36     cin >> i >> j;
37     Z w;
38     w.fun(i,j);
39     return 0;
40 }

```

- Lecture 29 :
Polymorphism:
Part 4: Staff
Salary
Processing
using C (unit?
unit=72&lesson=76)

- Lecture 30 :
Polymorphism:
Part 5: Staff
Salary
Processing
using C++
(unit?
unit=72&lesson=77)

- Tutorial 06 :
Mixing C and
C++ Code:
Part 2: Project
Example (unit?
unit=72&lesson=78)

- Week 6
Lecture
Material (unit?
unit=72&lesson=79)

- Quiz: Week 6 :
Assignment 6
(assessment?
name=189)

- W6_Programming_Qs-
1
(/noc23_cs50/progassignment?
name=186)

- W6_Programming_Qs-
2
(/noc23_cs50/progassignment?
name=187)

- W6_Programming_Qs-
3

(/noc23_cs50/progassignment?
name=188)

- ☐ Week 6
Feedback
Form (unit?
unit=72&lesson=190)
- ☒ Assignment 6
Solution (unit?
unit=72&lesson=81)

Week 7 ()

Week 8 ()

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Solving
Session ()**