X

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-Qs2

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

Consider the program below. Fill in the blank at LINE-1 with abstract function declaration
for Salary(). Fill in the at LINE-2 with proper header of the function. Fill in the blanks at LINE-3 and LINE-4 with appropriate statement to call function `computeAllowance()` such
that 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
Test Case 1	50000 80000	HOD Salary = 55000\n Director Salary = 88000\n	HOD Salary = 55000\n Director Salary = 88000\n	Passed

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, 23:01 IST
Your last recorded submission was :

```
1  #include <iostream>
2  using namespace std;
3
4  class Professor { double allowance = 10;
5  public:
6      virtual void Salary()=0;         // LINE-1
7      double computeAllowance(int);
8  };
9
10 double Professor::computeAllowance(int basic) {    // LINE-2
11     return (basic*allowance / 100);
12 }
```

- 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


```
13
14 class HOD : public Professor { int basic;
15 public:
16     HOD(int _b) : basic(_b) {    }
17     void Salary() {
18         double a = computeAllowance(basic);    // LINE-3: Call computeAllowance()
19         cout << "HOD Salary = " << (basic + a) << endl;
20     }
21 };
22
23 class Director : public Professor { int basic;
24 public:
25     Director(int _b) : basic(_b) {    }
26     void Salary() {
27         double a = computeAllowance(basic);    // LINE-4: : Call computeAllowance()
28         cout << "Director Salary = " << (basic + a) << endl;
29     }
30 };
31
32 int main() {
33     int h, d;
34     Professor *p;
35
36     cin >> h >> d;
37
38     p = new HOD(h);
39     p->Salary();
40
41     p = new Director(d);
42     p->Salary();
43
44     return 0;
45 }
```

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)