

Philip Pesic

Week 12

November 6 2022

Week 12 Prog 6

Take a look at this tutorial on inheritance and write the code found in the lecture.

```
//
```

```
// main.cpp
```

```
// Week 12 Prog 6
```

```
//
```

```
// Created by Pippo Pesic on 11/3/22.
```

```
//
```

```
#include <iostream>
```

```
using namespace std;
```

```
class base    //single base class
```

```
{
```

```
    public:
```

```
        int x;
```

```
    void getdata()
```

```
    {
```

```
        cout << "Enter the value of x = "; cin >> x;
```

```
    }
```

```
};
```

```
class derive : public base    //single derived class
```

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```
{
    private:

        int y;

    public:

        void readdata()

        {

            cout << "Enter the value of y = "; cin >> y;

        }

        void product()

        {

            cout << "Product = " << x * y;

        }

};
```

```
int main()
{
    derive a;      //object of derived class
    a.getdata();
    a.readdata();
    a.product();

    cout << endl << "Philip Pesic 11/6/22" << endl;
```

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```
        return 0;

    }    //end of program
```

The screenshot shows a C++ IDE with a project named "Week 12 Prog 6". The main.cpp file contains the following code:

```
1 //
2 // main.cpp
3 // Week 12 Prog 6
4 //
5 // Created by Philip Pesic on 11/3/22.
6 //
7
8 #include <iostream>
9 using namespace std;
10 class base    //single base class
11 {
12     public:
13         int x;
14         void getData()
15         {
16             cout << "Enter the value of x = "; cin >> x;
17         }
18 };
19 class derive : public base    //single derived class
20 {
21     private:
22         int y;
23     public:
24         void readData()
25         {
26             cout << "Enter the value of y = "; cin >> y;
27         }
28         void product()
29         {
30             cout << "Product = " << x * y;
31         }
32 };
33
34 int main()
35 {
36     derive d;    //object of derived class
37     d.getData();
38     d.readData();
39     d.product();
40     cout << endl << "Philip Pesic 11/6/22" << endl;
41     return 0;
42 }    //end of program
43
```

The output window shows the following text:

```
Enter the value of x = 2
Enter the value of y = 6
Product = 12
Philip Pesic 11/6/22
Program ended with exit code: 0
```

I learned: I learned how to inherit functions from a base class