


Class

■ Class

The keyword **class** is used to declare class and then write the class name or identifier. Member variable, Data member and Member function declare in class and its end with semicolon ; .

Syntax

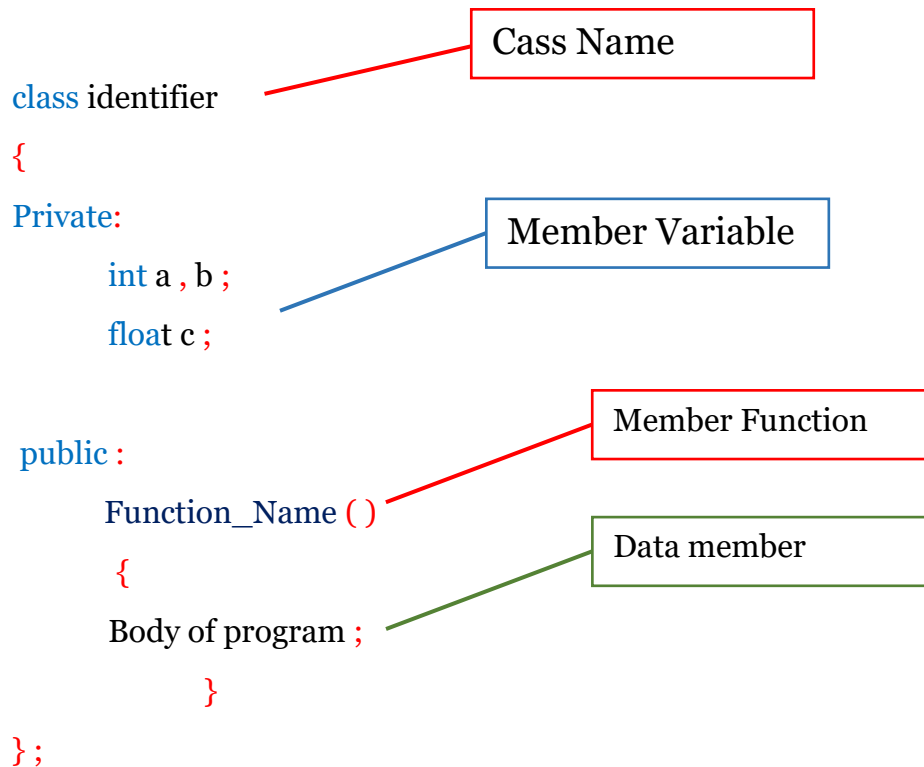
```
class identifier
{
    Body of class;
};
```



■ Member Variable / Member function / Data Member

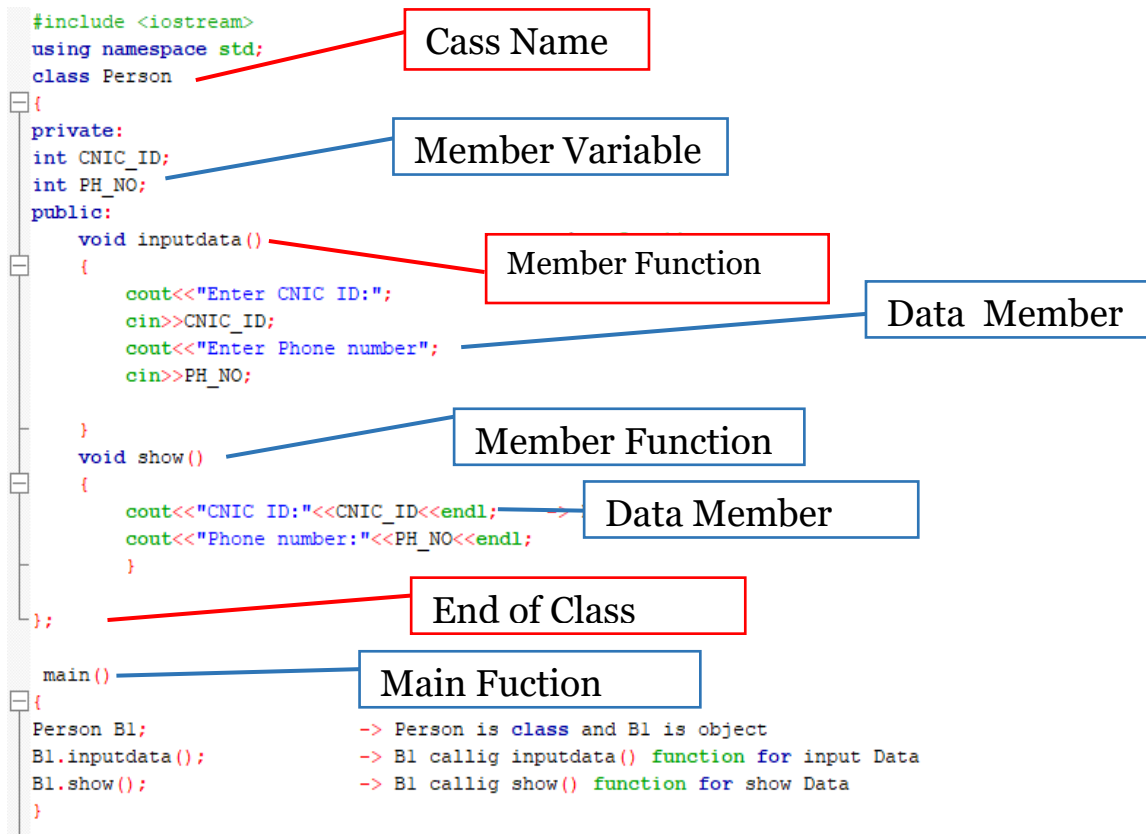
```
class identifier
{
    Private:
        int a , b ;
        float c ;

    public :
        Function_Name ( )
        {
            Body of program ;
        }
};
```



Class

Program Declaration inside the class function



The terminal window shows the execution of the program. The output is as follows:

```
"C:\Users\Shahzaib Yaqoob\Desktop\Code_Block\IN\qwq\mai...
Enter CNIC ID:12
Enter Phone number22
CNIC ID:12
Phone number:22
```

Class

```
1  #include <iostream>
2  using namespace std;
3  class Person
4  {
5  private:
6  int CNIC_ID;
7  int PH_NO;
8  public:
9      void inputdata()
10     {
11         cout<<"Enter CNIC ID:";
12         cin>>CNIC_ID;
13         cout<<"Enter Phone number";
14         cin>>PH_NO;
15     }
16     void show()
17     {
18         cout<<"CNIC ID:"<<CNIC_ID<<endl;
19         cout<<"Phone number:"<<PH_NO<<endl;
20     }
21 };
22
23 main()
24 {
25     Person B1;
26     B1.inputdata();
27     B1.show();
28 }
```

Class

Program Declaration outside the class function

Syntax

class identifier Class Name

{

Body of class

Public :

Return_type function_name(); Member Function

};

:: linked with Class

Class_name :: function_name()

{

Statements

}

```
1  #include <iostream>
2  using namespace std;
3
4  class PERSON          | -> class Started
5  {
6  private:
7      int CNIC_ID;
8      int PH_NO;
9  public:
10     void inputdata();   -> linked outside the class function
11     void show();        -> linked outside the class function
12
13 };                      -> class End
14
15 void PERSON::inputdata() -> Sytax who to link outside function in main class
16 {
17     cout<<"Enter Cnic ID:"<<endl;
18     cin>>CNIC_ID;
19     cout<<"Enter Phone Number:"<<endl;
20     cin>>PH_NO;
21 }
22
23 void PERSON::show()     -> Another function who to link outside function in main class
24 {
25     cout<<"CNIC ID:"<<CNIC_ID<<endl;
26     cout<<"Phone Number:"<<PH_NO<<endl;
27 }
28 int main()              -> main function Started
29 {
30     main()               -> main Fuction
31     {
32         Person B1;        -> Person is class and B1 is object
33         B1.inputdata();    -> B1 callig inputdata() function for input Data
34         B1.show();        -> B1 callig show() function for show Data
35     }
36 }
```

```
"C:\Users\Shahzaib Yaqoob\Desktop\Code_Block\IN\qwq\mai...
Enter CNIC ID:12
Enter Phone number22
CNIC ID:12
Phone number:22
```

Class

```
1 #include <iostream>
2 using namespace std;
3 class Person
4 {
5     private:
6     int CNIC_ID;
7     int PH_NO;
8     public:
9         void inputdata();
10        void show();
11
12
13 };
14
15 void Person::inputdata()
16 {
17     cout<<"Enter CNIC ID:";
18     cin>>CNIC_ID;
19     cout<<"Enter Phone number";
20     cin>>PH_NO;
21
22 }
23
24 void Person::show()
25 {
26     cout<<"CNIC ID:"<<CNIC_ID<<endl;
27     cout<<"Phone number:"<<PH_NO<<endl;
28 }
29
30 main()
31 {
32     Person B1;
33     B1.inputdata();
34     B1.show();
35 }
```