



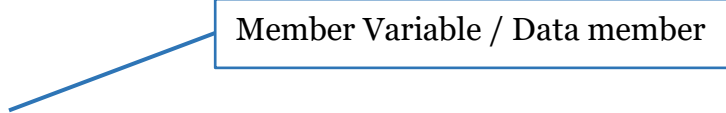
## ■ Class


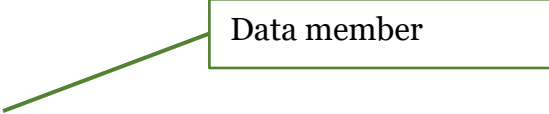
The keyword **class** is used to declare class and then write the class name or identifier. Member variable, Data member and Member function declare in class and its end with semicolon ; .

## 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 ; 
        }
};
```

## Data member

The variables which are declared in any class by using any fundamental data types (like int, char, float etc) or derived data type (like class, structure, pointer etc.) are known as Data Members

## Member Function

Member functions are operators and functions that are declared as members of a class member function declare in inside the class or outside the class.

## Program Declaration inside the class function

```
#include <iostream>
using namespace std;
class Person
{
private:
int CNIC_ID;
int PH_NO;
public:
void inputdata()
{
cout<<"Enter CNIC ID:";
cin>>CNIC_ID;
cout<<"Enter Phone number";
cin>>PH_NO;
}
void show()
{
cout<<"CNIC ID:"<<CNIC_ID<<endl;
cout<<"Phone number:"<<PH_NO<<endl;
}
};

main()
{
Person B1;
B1.inputdata();
B1.show();
}
```

**Class Name** (points to `class Person`)

**Member Variable** (points to `int CNIC_ID;` and `int PH_NO;`)

**Member Function** (points to `void inputdata()` and `void show()`)

**Data Member** (points to `cout<<"Enter CNIC ID:";` and `cout<<"CNIC ID:"<<CNIC_ID<<endl;`)

**End of Class** (points to `};`)

**Main Function** (points to `main()`)

**Annotations:**

- > Person is **class** and B1 is object
- > B1 callig inputdata() **function** for input Data
- > B1 callig show() **function** for show Data

```
C:\Desktop\Code_Block\IN\qwq\mai...
Enter CNIC ID:12
Enter Phone number:22
CNIC ID:12
Phone number:22
```

```
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 }
```