

base keyword in C#

The base keyword is used to access members of the base class from within a derived class.

We can use base keyword for following things as

- Access characteristics of base class
- Call a method on the base class that has been overridden by another method.
- Specify which base-class constructor should be called when creating instances of the derived class.

A base class access is permitted only in a constructor, an instance method, or an instance property accessor.

It is an error to use the base keyword from within a static method.

Application:

Application to demonstrate all scenarios in which we can use base keyword.

```
using System;

// base keyword is used to access characteristics of base class

public class base1
{
    public string name = "Marvellous";
}

public class Derived1 : base1
{
    public string name = "Infosystems";

    public void Display()
    {
        Console.WriteLine(base.name);
        Console.WriteLine(name);
}
```

}



```
}
// base keyword is used to access behaviour of base class
public class base2
{
  public void fun()
   {
     Console.WriteLine("Inside base fun");
}
public class Derived2: base2
{
  public void fun()
     Console.WriteLine("Inside derived fun");
     base.fun();
   }
}
// base keyword is used to call base class constructor explicitly.
public class base3
{
  public base3(int i)
   {
     Console.WriteLine("Base class constructor");
}
public class Derived3: base3
{
  public Derived3(int x):base(x)
   {
     Console.WriteLine("Derived class constructor");
   }
```



```
}
class Marvellous
{
  static void Main(string[] args)
  {
     Derived1 dobj1 = new Derived1();
     dobj1.Display();
     Derived2 dobj2 = new Derived2();
     dobj2.fun();
     Derived3 doj3 = new Derived3(11);
  }
}
```