## C# applications for Abstract class

**The abstract modifier indicates that the thing being modified has a missing or incomplete implementation.**

**The abstract modifier can be used with classes, methods.**

**Use the abstract modifier in a class declaration to indicate that a class is intended only to be a base class of other classes.**

**Members marked as abstract, or included in an abstract class, must be implemented by classes that derive from the abstract class.**

Application 1 :

```
using System;

abstract class Marvellous
{
   // We can create characteristics in abstract class
   public int i;

   // We can write constructor in abstract class
   public Marvellous()
   {
      Console.WriteLine("Inside constructor of Abstract Marvellous\n");
      i = 11;
   }

   // Abstract method declaration
   public abstract void fun();

   // Concrete method defination
   public void gun()
   {
      Console.WriteLine("Inside concrete gun of Marvellous");
   }
}
```

```
class Infosystems : Marvellous
{
    // Overrided method fun
    public override void fun()
    {
        Console.WriteLine("Inside concrete fun of infosystems");
    }
}

// It is manadatory to define abstract method in derived class
/*
class NewInfosystems : Marvellous
{

}
*/

class Program
{
    static void Main(string[] args)
    {
        // We can not create object of abstact class
        // Marvellous mobj = new Marvellous();

        // We can create reference of abstract class
        Marvellous mobj = new Infosystems();
        mobj.gun();
        mobj.fun();
    }
}
```