

## Accessor Property

- In C#, properties are nothing but a natural extension of data fields.
- They are usually known as 'smart fields' in C# community.
- Usually, inside a class, we declare a data field as private and will provide a set of public SET and GET methods to access the data fields.
- This is a good programming practice since the data fields are not directly accessible outside the class. We must use the set/get methods to access the data fields.
- The accessor of a property contains the executable statements that helps in getting (reading or computing) or setting (writing) the property.
- The accessor declarations can contain a get accessor, a set accessor, or both.

Below application demonstrates use of get and set property in MarvellousBook class

```
using System;  
using System.Text;
```

```
class MarvellousBook  
{  
    private string name = "not known";  
  
    private int price = 0;  
  
    // Declare a Name property of type string:
```

```
    public string Name  
    {  
        get  
        {  
            return name;  
        }  
        set  
        {  
            name = value;  
        }  
    }  
}
```

```
// Declare a Price property of type int
```

```
public int Price  
{  
    get  
    {  
        return price;  
    }  
    set  
    {  
        price = value;  
    }  
}
```

```
// Override the method from Object class

public override string ToString()
{
    return "Book name = " + Name + ", Price = " + Price;
}

}

class Marvellous
{
    static void Main(string[] args)
    {
        MarvellousBook s1 = new MarvellousBook();

        s1.Name = "Windows Internals";
        s1.Price = 900;
        Console.WriteLine("Book Info: {0}", s1);

        s1.Price += 100;
        Console.WriteLine("Book Info: {0}", s1);

        MarvellousBook s2 = new MarvellousBook();

        s2.Name = "Angular Web Development";
        s2.Price = 750;
        Console.WriteLine("Book Info: {0}", s2);

        s2.Price -= 50;
        Console.WriteLine("Book Info: {0}", s2);
    }
}
```