

Interface:

```
using System;
using System.Collections.Generic;
using System.Globalization;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace Day_7
{
    public interface IBrush
    {
        public string Name { get; set; }

        public string Type { get; set; }

        public int Price { get; set; }
    }
}
```

Brush:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace Day_7
{
    public class Brush : IBrush
    {
        public string Name { get; set; }

        public string Type { get; set; }

        public int Price { get; set; }

        public Brush(string Name, string Type, int Price)
        {
            this.Name = Name;
            this.Type = Type;
        }
    }
}
```

```
        this.Price = Price;
    }
}
}
```

Paint:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_7
{
    public class Painter
    {
        public string Name { get; set; }

        public string Gender { get; set; }

        public IBrush Brush { get; set; }

        public Painter(string Name, string Gender, IBrush Brush)
        {
            this.Name = Name;
            this.Gender = Gender;
            this.Brush = Brush;
        }
    }
}
```

[Program.cs](#)

```
using Day_7;

IBrush RollerBrush = new Brush("Repto Brush","Roller",300);

IBrush Brush = new Brush("Repto Brush", "Normal", 150);

Painter paint1 = new Painter("Karthikeyan", "Male", RollerBrush);
```

```
Painter paint2 = new Painter("Sugi", "Female", Brush);
```

```
Console.WriteLine($"Painter Name: {paint1.Name} \n Paint Quality : {paint1.Gender} \n Brush  
Name : {paint1.Brush.Name} \n" +
```

```
    $" Brush Price : {paint1.Brush.Price} \n Brush Type : {paint1.Brush.Type} ");
```

```
Console.WriteLine($"Painter Name: {paint2.Name} \n Paint Quality : {paint2.Gender} \n Brush  
Name : {paint2.Brush.Name} \n" +
```

```
    $" Brush Price : {paint2.Brush.Price} \n Brush Type : {paint2.Brush.Type} ");
```

Test:

```
using NUnit.Framework;
```

```
using Day_7;
```

```
namespace Day_7.Test
```

```
{
```

```
    public class BrushTests
```

```
    {
```

```
        [Test]
```

```
        public void Brush_ShouldStore_ConstructorValues()
```

```
        {
```

```
            var brush = new Brush("Repto Brush", "Roller", 300);
```

```
            Assert.That(brush.Name, Is.EqualTo("Repto Brush"));
```

```
            Assert.That(brush.Type, Is.EqualTo("Roller"));
```

```
            Assert.That(brush.Price, Is.EqualTo(300));
```

```
        }
```

```
    }
```

```
    public class PainterTests
```

```
    {
```

```
        [Test]
```

```
        public void Painter_ShouldStore_BrushCorrectly()
```

```
        {
```

```
            var brush = new Brush("Repto Brush", "Normal", 150);
```

```
            var painter = new Painter("Beaste", "Female", brush);
```

```
            Assert.That(painter.Name, Is.EqualTo("Beaste"));
```

```
            Assert.That(painter.Gender, Is.EqualTo("Female"));
```

```
            Assert.That(painter.Brush, Is.EqualTo(brush));
```

```
            Assert.That(painter.Brush.Name, Is.EqualTo("Repto Brush"));
```

```
        }
```

```
[Test]
public void Painter_BrushData_ShouldMatchAssigned()
{
    var rollerBrush = new Brush("Repto Brush", "Roller", 300);
    var painter = new Painter("Karthikeyan", "Male", rollerBrush);

    Assert.Multiple(() =>
    {
        Assert.That(painter.Brush.Name, Is.EqualTo("Repto Brush"));
        Assert.That(painter.Brush.Type, Is.EqualTo("Roller"));
        Assert.That(painter.Brush.Price, Is.EqualTo(300));
    });
}
}
```

Output:

Test	Duration	Traits	Error Message
▲ ✓ Test (3)	31 ms		
▲ ✓ Day_7.Test (3)	31 ms		
▲ ✓ BrushTests (1)	28 ms		
✓ Brush_ShouldStore_Constructor...	28 ms		
▲ ✓ PainterTests (2)	3 ms		
✓ Painter_BrushData_ShouldMatc...	2 ms		
✓ Painter_ShouldStore_BrushCorr...	1 ms		