

Q1: Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Q1

{

class Program

{

static void Main(string[] args)

{

Item i = new Item();

i.Price = 0;

i.PriceChanged += ShowPriceChangedMessage;

int new\_price;

Console.WriteLine("Current price is {0}\nEnter the new price:", i.Price);

int.TryParse(Console.ReadLine(), out new\_price);

i.Price = new\_price;

Console.Read();

}

private static void ShowPriceChangedMessage(int v)

{

Console.WriteLine("New Price : " + v);

}

```
}
```

```
class Item
```

```
{
```

```
    private int price;
```

```
    private string name;
```

```
    public delegate void PriceChangedHandler(int v);
```

```
    public event PriceChangedHandler PriceChanged;
```

```
    public int Price
```

```
    {
```

```
        get
```

```
        {
```

```
            return price;
```

```
        }
```

```
        set
```

```
        {
```

```
            price = value;
```

```
            if (PriceChanged != null)
```

```
            {
```

```
                PriceChanged(value);
```

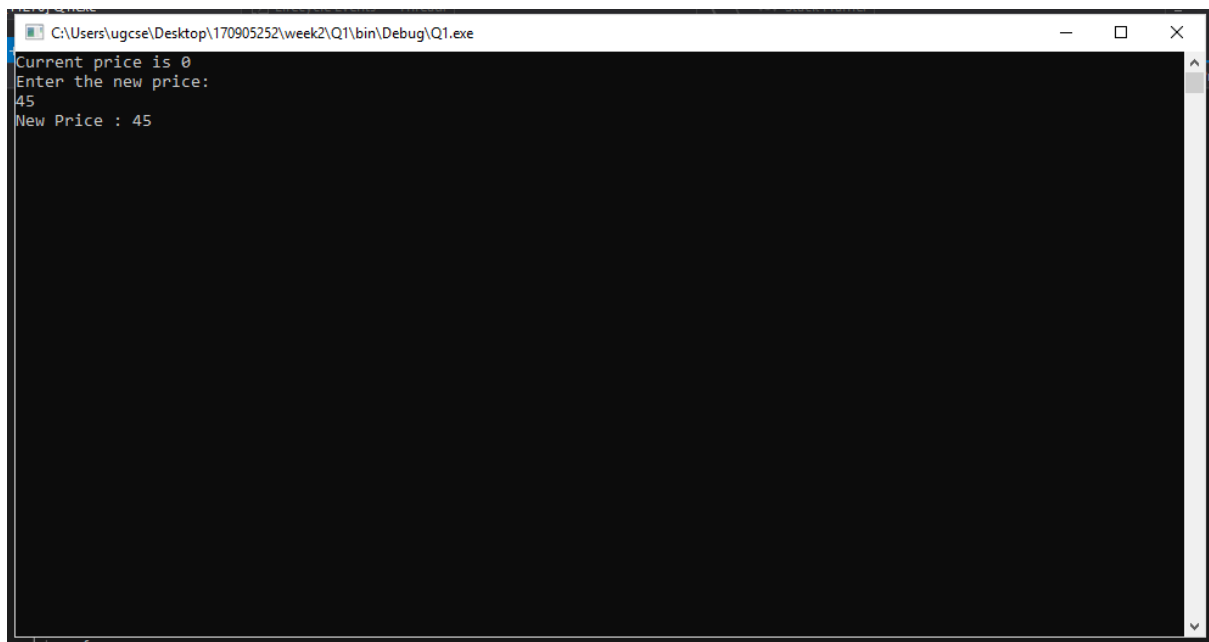
```
            }
```

```
        }
```

```
    }
```

```
}
```

```
}
```



Q2: Program.cs

```
using System;
```

```
using System.Collections.Generic;
```

```
using System.Linq;
```

```
using System.Text;
```

```
using System.Threading.Tasks;
```

```
namespace Q2
```

```
{
```

```
    class Program
```

```
    {
```

```
        static void Main(string[] args)
```

```
        {
```

```
            Item item = new Item();
```

```
            double cost;
```

```
            Console.WriteLine("Enter the cost of the item");
```

```
            string s1 = Console.ReadLine();
```

```
            double.TryParse(s1, out cost);
```

```

        item.Cost = cost;

        Console.WriteLine("The GST is " + CalcGst(item.Cost));
        Console.ReadLine();
    }

    private static double CalcGst(double cost)
    {
        return 0.08 * cost;
    }
}

```

Item.cs

```

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

```

```

namespace Q2

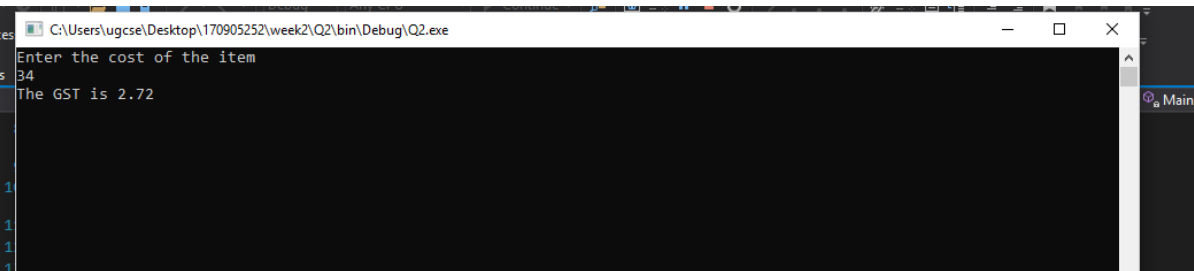
```

```

{
    class Item
    {
        public static double cost;
        public string name { get; set; }

        public double Cost
        {
            get
            {

```



```
C:\Users\ugcse\Desktop\170905252\week2\Q2\bin\Debug\Q2.exe
Enter the cost of the item
34
The GST is 2.72
```

```

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

namespace Q3
{
    class Program
    {
        static void Main(string[] args)
        {
            TrafficSignal t = new TrafficSignal();

            TrafficSignal.TrafficDel del;

            del = t.Yellow;
            del += t.Red;
            del += t.Green;

            del();

            Console.Read();

        }
    }
}

```

#### TrafficSignal.cs

```

using System;
using System.Collections.Generic;

```

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

namespace Q3
{
    class TrafficSignal
    {
        public delegate void TrafficDel();

        public void Yellow()
        {
            Console.WriteLine("Yellow light is for stopping and waiting.");
        }

        public void Red()
        {
            Console.WriteLine("Red light is for stopping at the signal.");
        }

        public void Green()
        {
            Console.WriteLine("Green light is for going.");
        }
    }
}
```

}

