INTERNET TECHNOLOGY LAB

WEEK 2

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Question 1

```
using System;
namespace IT_LAB_WEEK_2 {
    public delegate void PriceChangedEventHandler(int newPrice);
    public class Item {
        private string name;
        private int price;
        public string Name {
            get {
                return name;
            set {
                name = value;
        }
        public event PriceChangedEventHandler PriceChanged;
        public int Price {
            get {
                return price;
            set {
                price = value;
                PriceChanged?.Invoke(value);
            }
        }
    }
```

```
class Program {
        public static void priceChangeDetected(int newPrice) {
            Console.WriteLine("Price of the item changed to {0}", newPrice);
        }
        public static void quest1() {
            Item item = new Item();
            item.PriceChanged += priceChangeDetected;
            item.Price = 1299;
        }
         public static void Main(string[] args) {
            Item item = new Item();
            item.PriceChanged += priceChangeDetected;
            item.Name = "iPhone 12 Pro";
            item.Price = 129000;
        }
    }
}
```

Output

```
Price of the item changed to 1299

C:\Users\ugcse\Desktop\HarshavardhanK-IT-LAB\Week2\IT_LAB_WEEK_2\IT_LAB_WEEK_3\bin\Debug\netcoreapp3.1\IT_LAB_WEEK_3.exe (process 13648) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

Question 2

```
using System;
namespace IT_LAB_WEEK_2 {
    public class Item2 {
        public string Name { get; set; }
        public static int Cost;
        public Item2(string name, int cost) {
             Name = name;
             Cost = cost;
        public double CalcGst() {
             return 0.08 * Cost;
    }
    class Program {
        public static void quest2() {
    Item2 item = new Item2("iPhone X", 129000);
             Console.WriteLine(item.CalcGst());
        }
        public static void Main(string[] args) {
             quest2();
        }
    }
}
```

Output

```
Microsoft Visual Studio Debug Console

GST of iPhone X is 10320

C:\Users\ugcse\Desktop\HarshavardhanK-IT-LAB\Week2\IT_LAB_WEEK_2\IT_LAB_WEEK_3\bin\Debug\netcoreapp3.1\IT_LAB_WEEK_3.exe (process 19432) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso le when debugging stops.

Press any key to close this window . . .
```

Question 3

```
using System;
namespace IT_LAB_WEEK_2 {
    public delegate void TrafficDelegate();
    public class TrafficSignal {
        public void yellowSignal() {
    Console.WriteLine("Get ready to move");
        public void greenSignal() {
            Console.WriteLine("Move");
        public void redSignal() {
            Console.WriteLine("Stop");
    }
    class Program {
        public static void Main(string[] args) {
             TrafficDelegate trafDel;
             TrafficSignal trafSignal = new TrafficSignal();
             trafDel = trafSignal.redSignal;
             trafDel();
        }
    }
}
```

Output

```
Stop

C:\Users\uges\Desktop\HarshavardhanK-IT-LAB\Week2\IT_LAB_WEEK_2\IT_LAB_WEEK_3\bin\Debug\netcoreapp3.1\IT_LAB_WEEK_3.exe (process 5288) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso le when debugging stops.

Press any key to close this window . . .
```