INTERNET TECHNOLOGY LAB

Week 1

```
namespace IT_LAB_WEEK_1 {
    class Program {
        public static void arithmetic() {
            Console.WriteLine("Enter two numbers");
            int num1, num2;
            int.TryParse(Console.ReadLine(), out num1);
            int.TryParse(Console.ReadLine(), out num2);
            Console.WriteLine("1. Addition\n2. Subtraction\n3. Multiplication\n4.
Division");
            int choice;
            int.TryParse(Console.ReadLine(), out choice);
            switch(choice) {
                case 1:
                    Console.WriteLine("Sum of {0} and {1} is {2}", num1, num2, num1 +
num2); break;
                case 2:
                    Console.WriteLine("Difference of {0} and {1} is {2}", num1, num2,
num1 - num2); break;
                case 3:
                    Console.WriteLine("Product of {0} and {1} is {2}", num1, num2,
num1 * num2); break;
                case 4:
                    Console.WriteLine("Quotient of {0} and {1} is {2}", num1, num2,
num1 / num2); break;
                    Console.WriteLine("invalid option"); break;
            }
        }
    }
```

```
Enter two numbers
15
13
1. Addition
2. Subtraction
3. Multiplication
4. Division
3
Product of 15 and 13 is 195
C:\Users\uges\Desktop\HarshavardhanK-IT-LAB\Week1\IT_LAB_WEEK_1_Q1-2\IT_LAB_WEEK_2\bin\Debug\netcoreapp3.1\IT_LAB_WEEK_2.exe (process 17652) 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 . . .
```

```
using System;
namespace IT_LAB_WEEK_1 {
    class Program {
        static void Main(string[] args)
            Console.WriteLine("Welcome to Date Time Add!");
            Console.WriteLine("Enter date in format: DD:MM:YY:hh:mm:ss");
            String inputDate;
            inputDate = Console.ReadLine();
            Console.WriteLine("Enter number of nano seconds to add:");
            Int64 ticks = Int64.Parse(Console.ReadLine());
            Console.WriteLine("After Adding: " + addTime(inputDate, ticks));
      }
        public static String addTime(String inputDate, Int64 ticks) {
            int DAY = 0;
            int YEAR = 2;
            int SECOND = 5;
            long NANO_TO_SECONDS = 10000000000;
            String[] subStrings = inputDate.Split(':');
            Int64 seconds = (ticks / NANO_TO_SECONDS);
            Int64 carry = seconds;
            String result = "";
            String dayTemp = "";
            Int64 add;
            String temp = subStrings[0];
            subStrings[0] = subStrings[2];
            subStrings[2] = temp;
            Int64[] mods = { 31, 12, 100, 24, 60, 60 };
            for (int i = SECOND; i >= DAY; i--)
                add = (carry + Int64.Parse(subStrings[i])) % mods[i];
                carry = (carry + Int64.Parse(subStrings[i])) / mods[i];
                if (i > YEAR)
                    result = ":" + (add + result);
                else if (i != DAY)
                    dayTemp += ((add) + ":");
                else
```

```
dayTemp += (add);
}

result = (dayTemp + result);

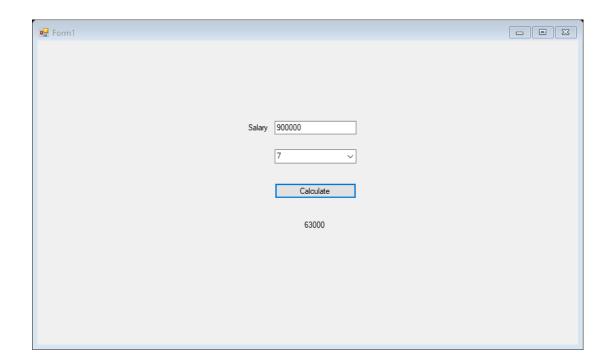
return result;

}
}
```

```
Welcome to Date Time Add!
Enter date in format: DD:MM:YY:hh:mm:ss
30:11:20:15:51:30
Enter number of nano seconds to add:
90000000000
After Adding: 30:11:20:15:53:0
```

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace IT_LAB_WEEK_1_WINFORMS
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        }
        private void button1 Click(object sender, EventArgs args)
            Int64 salary = Int64.Parse(salaryTextbox.Text);
            int position = comboBox1.SelectedIndex;
            double bonus;
            Console.WriteLine("hello");
            if (position == 0)
            {
                bonus = (0.1 * salary);
            }
            else if (position >= 1 && position < 4)</pre>
                bonus = (0.09 * salary);
            else if (position >= 4 && position < 7)</pre>
                bonus = (0.07 * salary);
            }
            else
            {
                bonus = (0.05 * salary);
            }
            bonusLabel.Text = bonus.ToString("0.##");
            salaryLabel.Text = "hello";
        }
        private void button1_MouseClick(object sender, MouseEventArgs e)
            Int64 salary = Int64.Parse(salaryTextbox.Text);
            int position = comboBox1.SelectedIndex;
            double bonus;
            Console.WriteLine("hello");
```

```
if (position == 0)
{
      bonus = (0.1 * salary);
}
else if (position >= 1 && position < 4)
{
      bonus = (0.09 * salary);
}
else if (position >= 4 && position < 7)
{
      bonus = (0.07 * salary);
}
else
{
      bonus = (0.05 * salary);
}
bonusLabel.Text = bonus.ToString();
}
}</pre>
```



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
namespace Car_Purchase
    public partial class Form1 : Form
        public static String[] toyota = {"Corolla", "Yaris", "Innova", "Fortuner"};
public static String[] toyotaPrices = { "900000", "1700000", "2100000",
"3500000" };
        public static String[] marutiSuzuki = {"Baleno", "Swift", "Dezire"};
        public static String[] suzukiPrices = { "1200000", "1000000", "875000" };
        public static String[] hyundai = {"Grand i10", "i20 Asta", "i30"};
        public static String[] hyundaiPrices = { "870000", "1100000", "20000000" };
        public static String[] kia = {"Sonet", "Seltos"};
        public static String[] kiaPrices = { "1250000", "2100000"};
        public Form1()
        {
             InitializeComponent();
        }
        public void comboBox1_ItemSelected(Object observer, EventArgs e)
            switch(comboBox1.SelectedIndex)
             {
                 case 0:
                     listBox1.Items.Clear();
                     listBox1.Items.AddRange(marutiSuzuki);
                     break;
                 case 1:
                     listBox1.Items.Clear();
                     listBox1.Items.AddRange(hyundai); break;
                 case 2:
                     listBox1.Items.Clear();
                     listBox1.Items.AddRange(kia);break;
                 case 3:
                     listBox1.Items.Clear();
                     listBox1.Items.AddRange(toyota); break;
             }
        }
        public void listBox1_ItemSelected(Object observer, EventArgs e)
```

```
{
            String price;
            switch (comboBox1.SelectedIndex)
                case 0:
                    price = suzukiPrices[listBox1.SelectedIndex];
                    break;
                case 1:
                    price = hyundaiPrices[listBox1.SelectedIndex];
                    break;
                case 2:
                    price = kiaPrices[listBox1.SelectedIndex];
                    break;
                    price = toyotaPrices[listBox1.SelectedIndex];
                    break;
                default:
                    price = "0";
                    break;
            }
            label2.Text = price;
        }
        public void button1_Click(Object observer, EventArgs e)
            MessageBox.Show("Thank you for Purchasing " + comboBox1.Text + " " +
listBox1.SelectedItem);
        public void button2_Click(Object observer, EventArgs e)
            comboBox2.SelectedIndex = 0;
            comboBox1.SelectedIndex = 0;
            listBox1.SelectedIndex = 0;
            label2.Text = "Uncalculated";
            MessageBox.Show("Selections Reset");
     }
    }
```

