C# Course

Program 1

Program to Find Sum, Difference, Product, Quotient and Remainder

Code to find sum of two numbers

```
int a, b, sum;
a =Convert.ToInt32(textBox1.Text);
b = Convert.ToInt32(textBox2.Text);
sum = a + b;
label3.Text = "Sum is " + sum;
```

Code to find difference between two numbers

```
            int a, b, diff;
            a= Convert.ToInt32(textBox1.Text);
            b = Convert.ToInt32(textBox2.Text);
            diff = a - b;
            label3.Text = "Difference is " + diff;
```

Code to find multiplication of two numbers

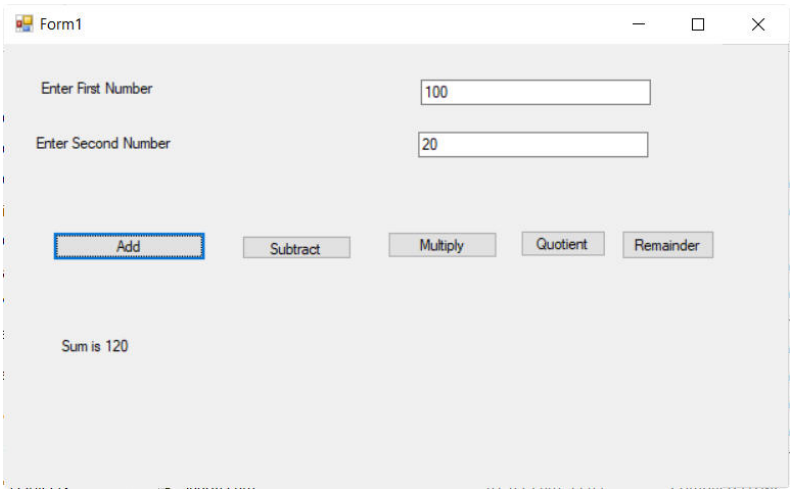
```
            int a, b, product;
            a = Convert.ToInt32(textBox1.Text);
            b = Convert.ToInt32(textBox2.Text);
            product = a * b;
            label3.Text = "Product is " + product;
```

Code to find quotient of two numbers

```
            int a, b, quo;
            a = Convert.ToInt32(textBox1.Text);
            b = Convert.ToInt32(textBox2.Text);
            quo = a / b;
            label3.Text = "Quotient is " + quo;
```

Code to find remainder of two numbers

```
            int a, b, rem;
            a = Convert.ToInt32(textBox1.Text);
            b = Convert.ToInt32(textBox2.Text);
            rem = a % b;
            label3.Text = "Remainder is " + rem;
```

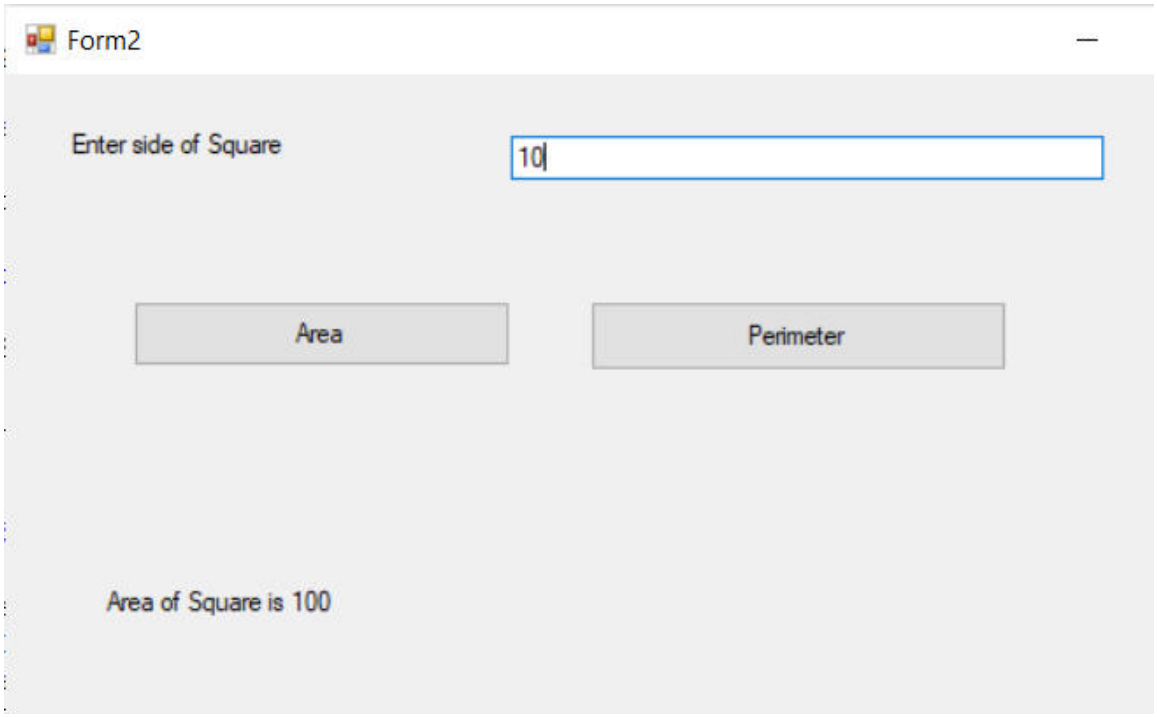


Program to find Area of Square

```
int side, area;
side = Convert.ToInt32(textBox1.Text);
area = side * side;
label2.Text = "Area of Square is " + Convert.ToString(area);
```

Program to find Perimeter of square

```
int side, perimeter;
side = Convert.ToInt32(textBox1.Text);
perimeter = 4 * side;
label2.Text = "Perimeter of Square is " +
Convert.ToString(perimeter);
```

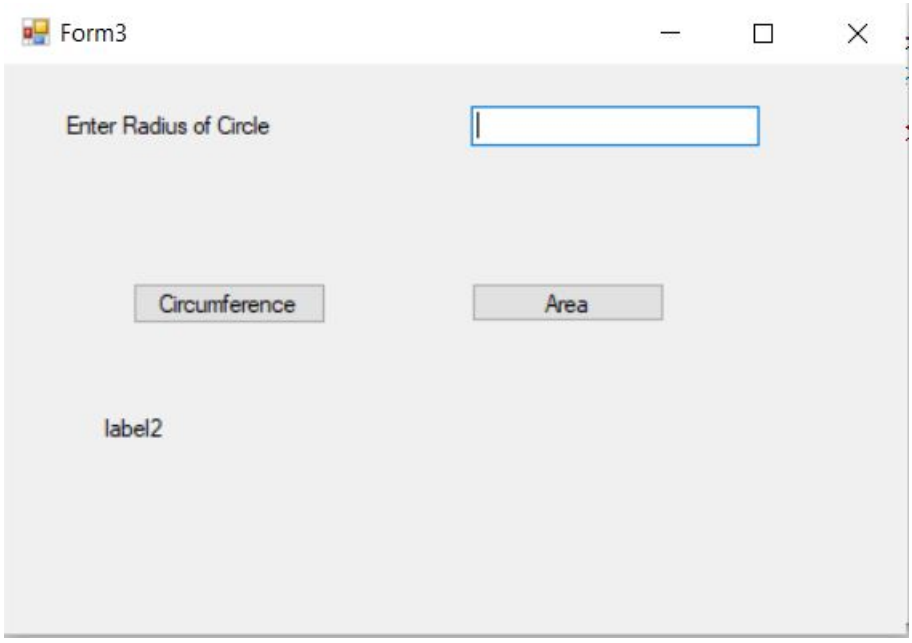


Program to find Area of Circle

```
double radius, area;
radius = Convert.ToDouble("Enter Radius of Circle");
area = Math.PI * radius * radius;
label1.Text = "Area of Circle is " + radius;
```

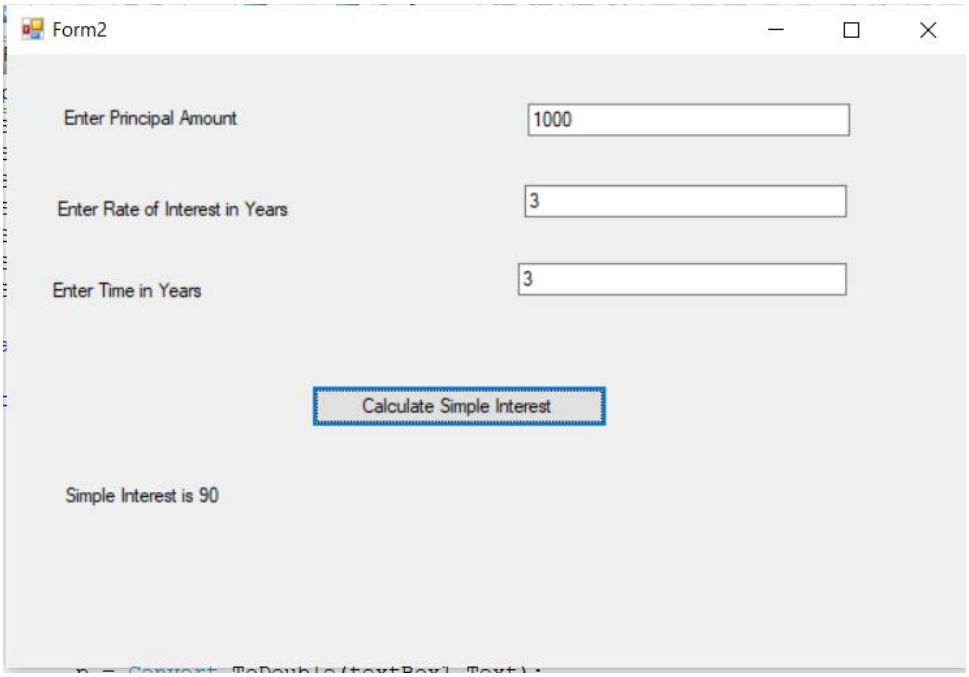
Program to find Circumference of Circle

```
double radius, circumference;
radius = Convert.ToDouble("Enter Radius of Circle");
circumference = 2 * Math.PI * radius;
label1.Text = "Circumference of Circle is " & circumference;
```



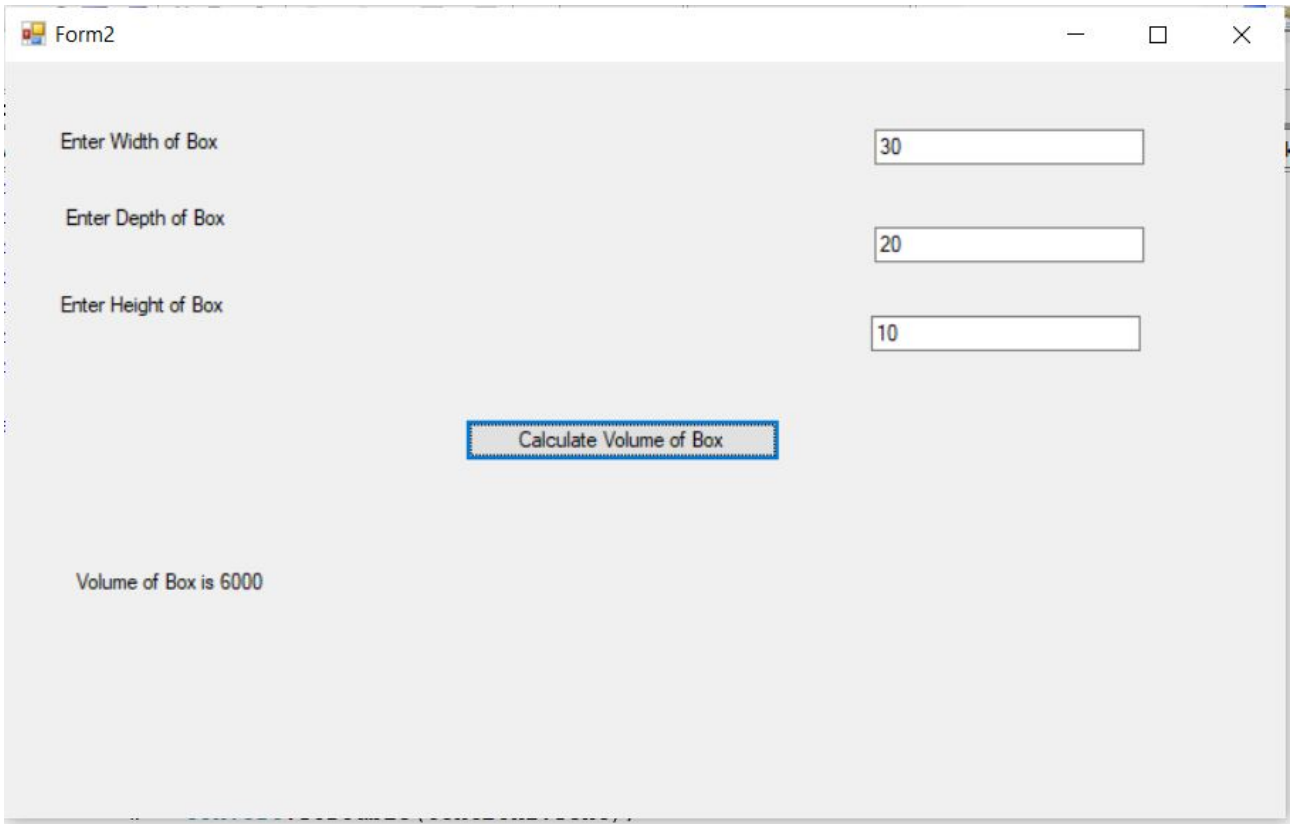
Program to find simple Interest

```
double p, r, t,si;
p = Convert.ToDouble(textBox1.Text);
r = Convert.ToDouble(textBox2.Text);
t = Convert.ToDouble(textBox3.Text);
si = (p * r * t)/100;
label4.Text = "Simple Interest is " + Convert.ToString(si);
```



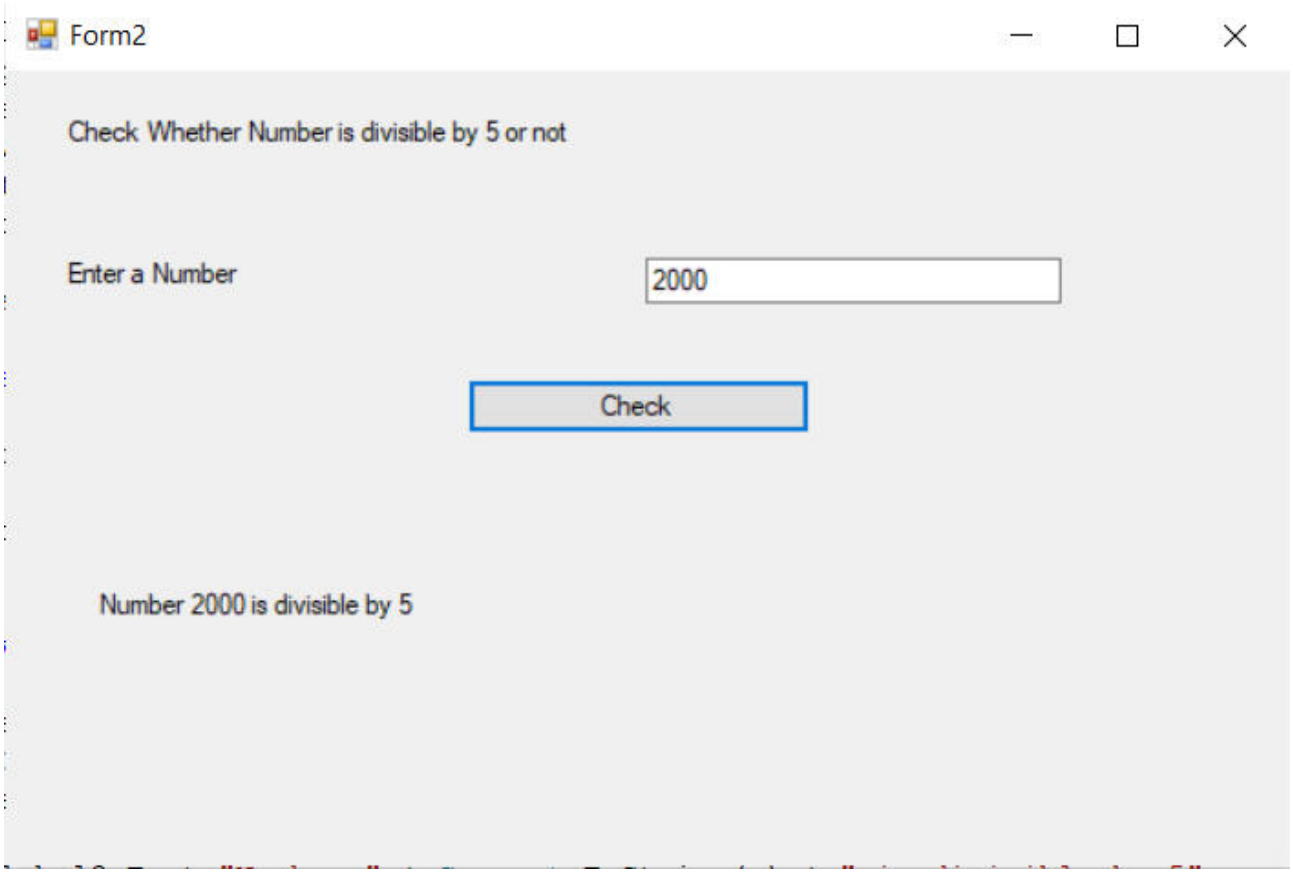
Program to find Volume of box

```
double d, w, h, volume;
d = Convert.ToDouble(textBox1.Text);
w = Convert.ToDouble(textBox2.Text);
h = Convert.ToDouble(textBox3.Text);
volume = d * w * h;
label4.Text = "Volume of Box is " + volume;
```



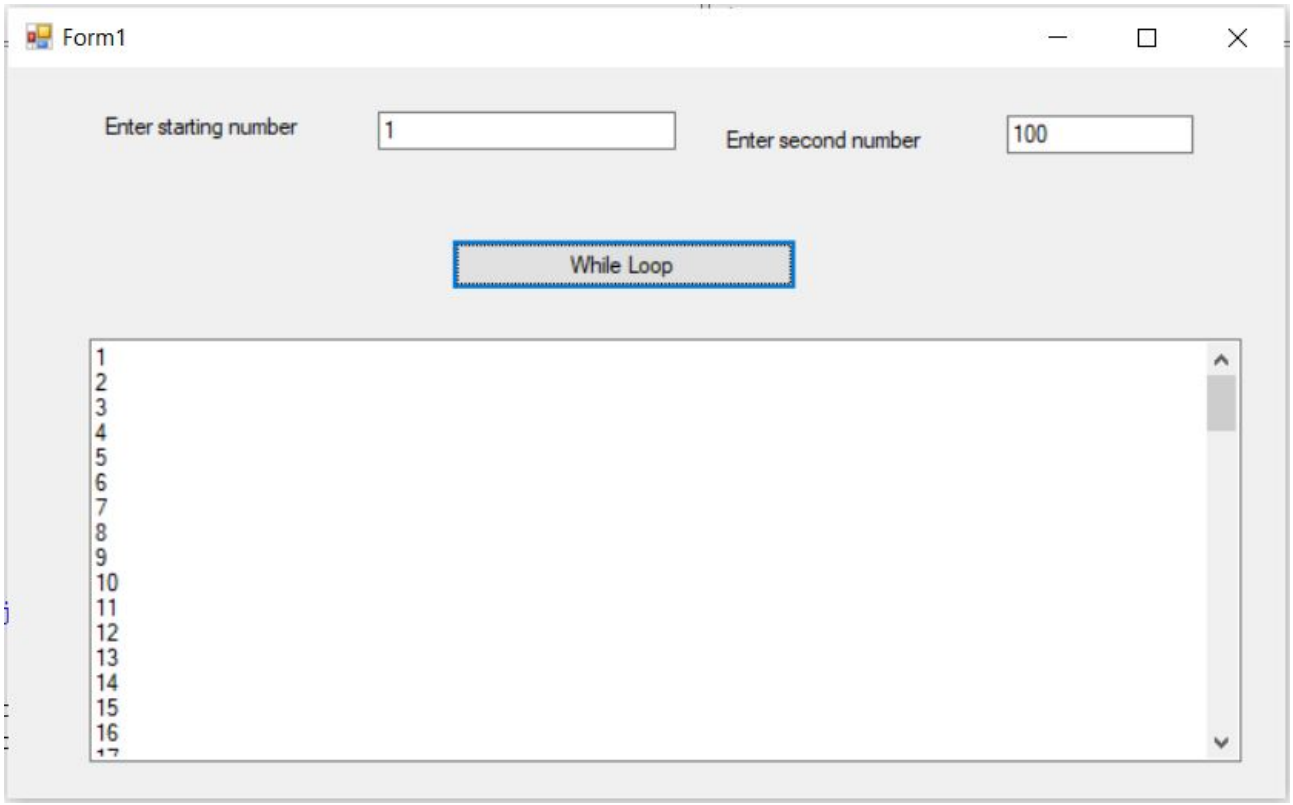
Program to demonstrate if statement

```
int a, b;
            a = Convert.ToInt32(textBox1.Text);
            if (a % 5 == 0)
            {
                label3.Text="Number " + Convert.ToString(a) + " is divisible by
5";
            }
            else
            {
                label3.Text="Number " + Convert.ToString(a) + " is not divisible
by 5";
            }
```



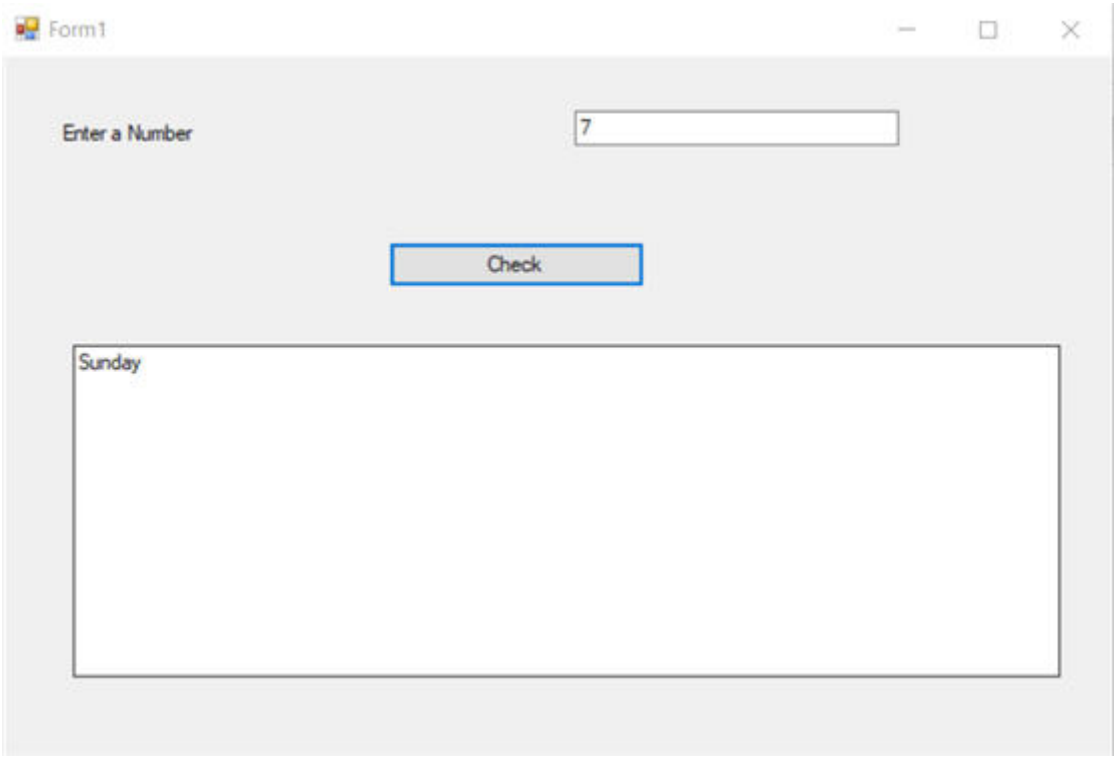
Program to demonstrate while loop

```
 int a, b,i=0;
            a = Convert.ToInt32(textBox2.Text);
            b = Convert.ToInt32(textBox3.Text);
            i=a;
            while (i <= b)
            {
                textBox1.Text = textBox1.Text + Convert.ToInt32(i) +
System.Environment.NewLine;
                i++;
            }
```



Program to demonstrate switch Statement

```
int day;
String dayname="Enter a valid Day Name between 1 and 7";
day = Convert.ToInt32(textBox1.Text);
switch (day)
{
    case 1: dayname = "Monday";
        break;
    case 2: dayname = "Tuesday";
        break;
    case 3: dayname = "Wednesday";
        break;
    case 4: dayname = "Thursday";
        break;
    case 5: dayname = "Friday";
        break;
    case 6: dayname = "Saturday";
        break;
    case 7: dayname = "Sunday";
        break;
}
textBox2.Text = dayname;
```

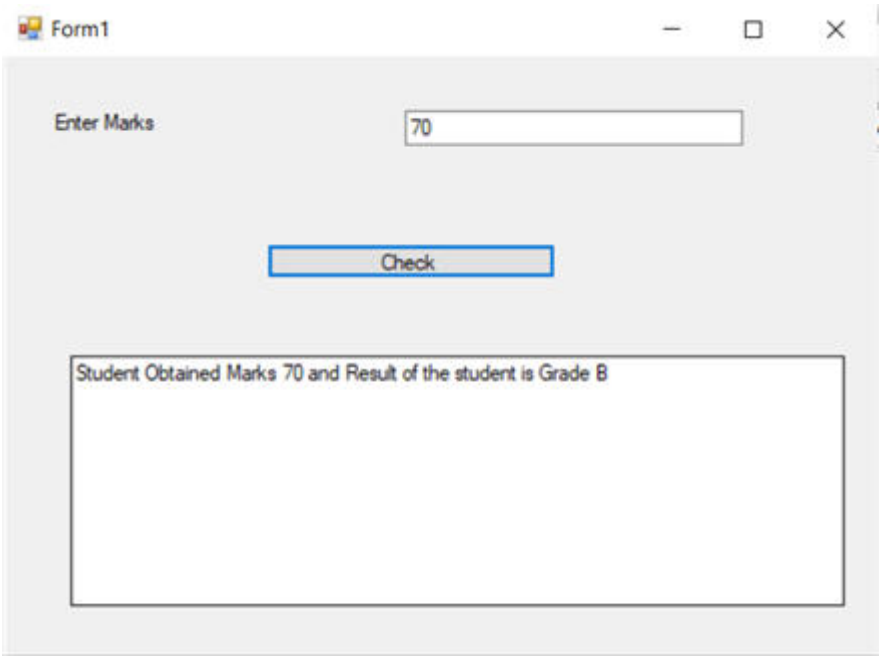


Program to find Result of Student based on Marks

Code :

```
int marks;
            String result = "";
            marks = Convert.ToInt32(textBox1.Text);
            if((marks>=80) && (marks<=100))
            {
                result="Grade A";
            }
            else if((marks>=70) && (marks<80))
            {
                result="Grade B";
            }
            else if((marks>=60) && (marks<70))
            {
                result="Grade C";

            }
            else
            {
                result="Grade D";
            }
            textBox2.Text="Student Obtained Marks " + marks + " and Result of
the student is " + result;
```



Program to create a function to calculate Simple Interest

```
public static double calcsi(double p, double r, double t)
  {
      double si;
      si = (p * r * t) / 100;
      return si;
  }
  private void button1_Click(object sender, EventArgs e)
  {
      double si;
      double p, r, t;
      p = Convert.ToDouble(textBox1.Text);
      r = Convert.ToDouble(textBox2.Text);
      t = Convert.ToDouble(textBox3.Text);
      si = calcsi(p, r, t);
      label4.Text = "Simple Interest is " + Convert.ToString(si);
  }
```