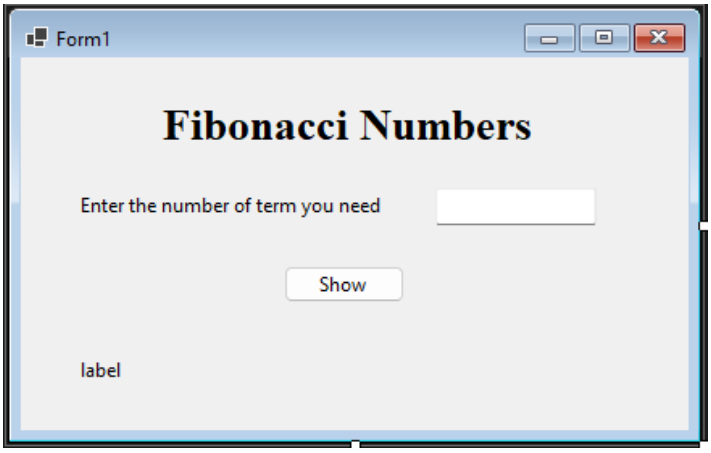
EC/2021/006 W. K. G. K JAYAWARDANA

Exercise 01

01.

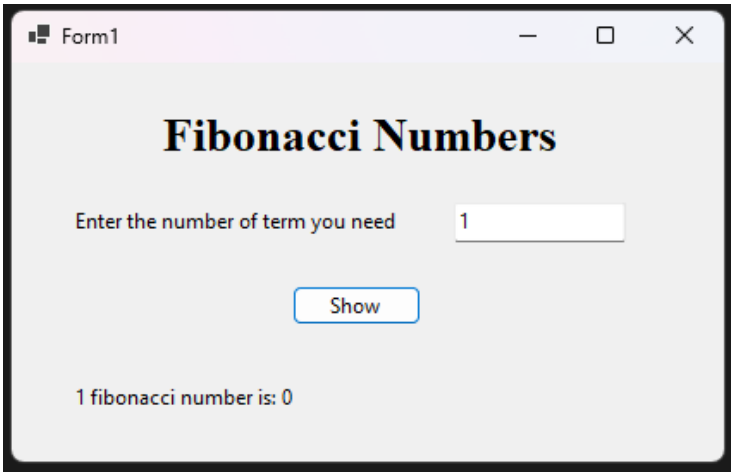


03.

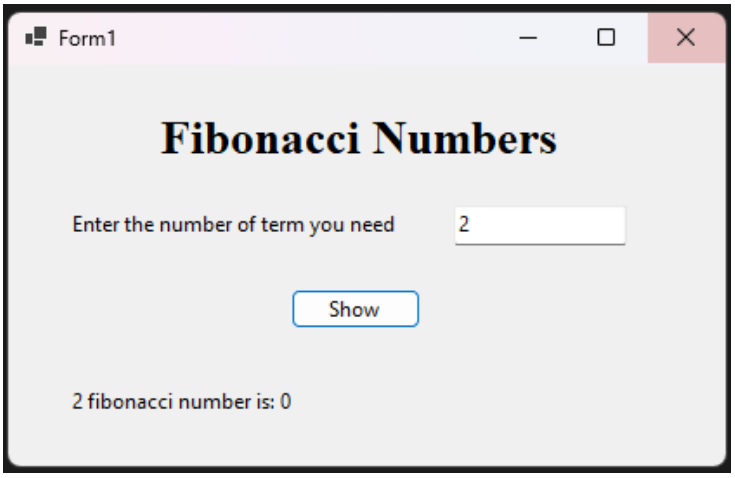
```
namespace Lab_04
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int n, first = 0, second = 1, next = 0, c;

            if (textBox1.Text == "")
            {
                MessageBox.Show("Please enter a number to proceed", "Warning",
                MessageBoxButtons.OKCancel, MessageBoxIcon.Warning);
            }
            else
            {
                n = int.Parse(textBox1.Text);

                for (c = 0; c < second; c++)
                {
                    if (c <= 1)
                    {
                        next = c;

                    }
                    else
                    {
                        next = first + second;
                        first = second;
                        second = next;


                    }

                }

                lblDisplay.Text = n + " fibonacci number is: " + next;
            }
```

```
        }
    }
}
```

04.



05.



06.

```
{
    n = int.Parse(textBox1.Text);

    for (c = 0; c < second; c++)
    {
        if (c <= 1)
        {
            next = c;

        }
```

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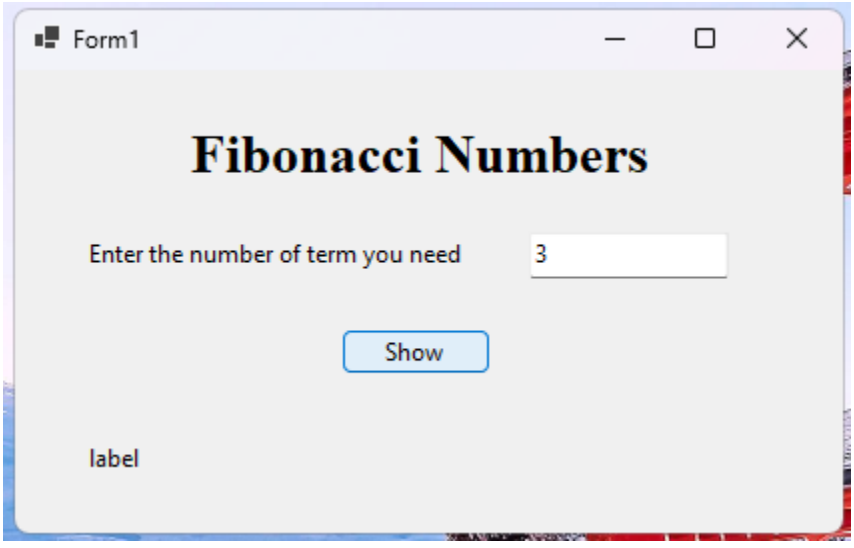
07.

```
                MessageBoxButtons.OKCancel, MessageBoxIcon.Warning
            }
            else
            {
                n = int.Parse(textBox1.Text);

                for (c = 0; c < second; c++)    ≤ 1ms elapsed
                {
                    if (c <= 1)
                    {
                        next = c;

                    }
                    else
                    {
                        next = first + second;
                        first = second;
                        second = next;


                    }

                }
```

10. only one time

12.



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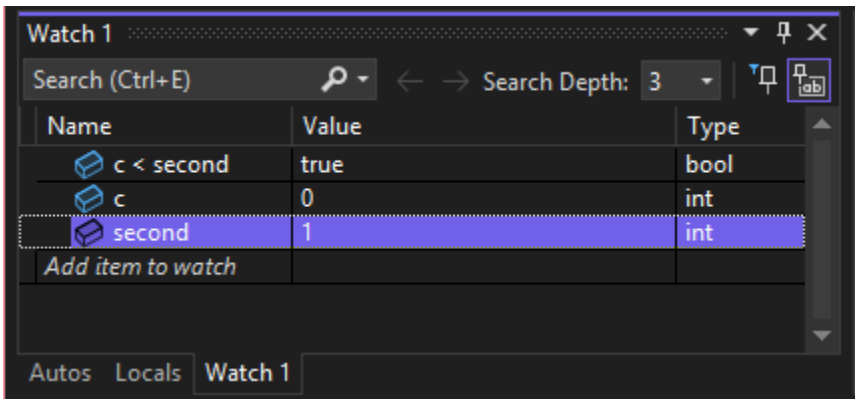
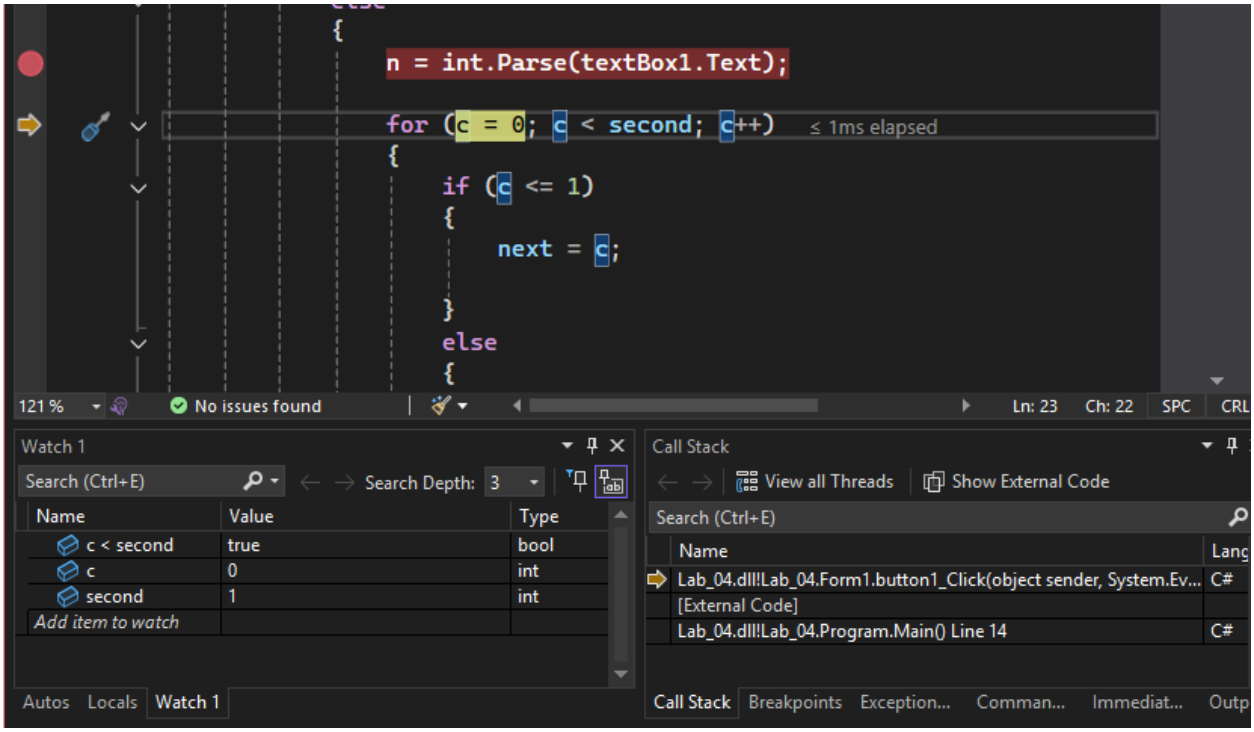
14.



16.



17.

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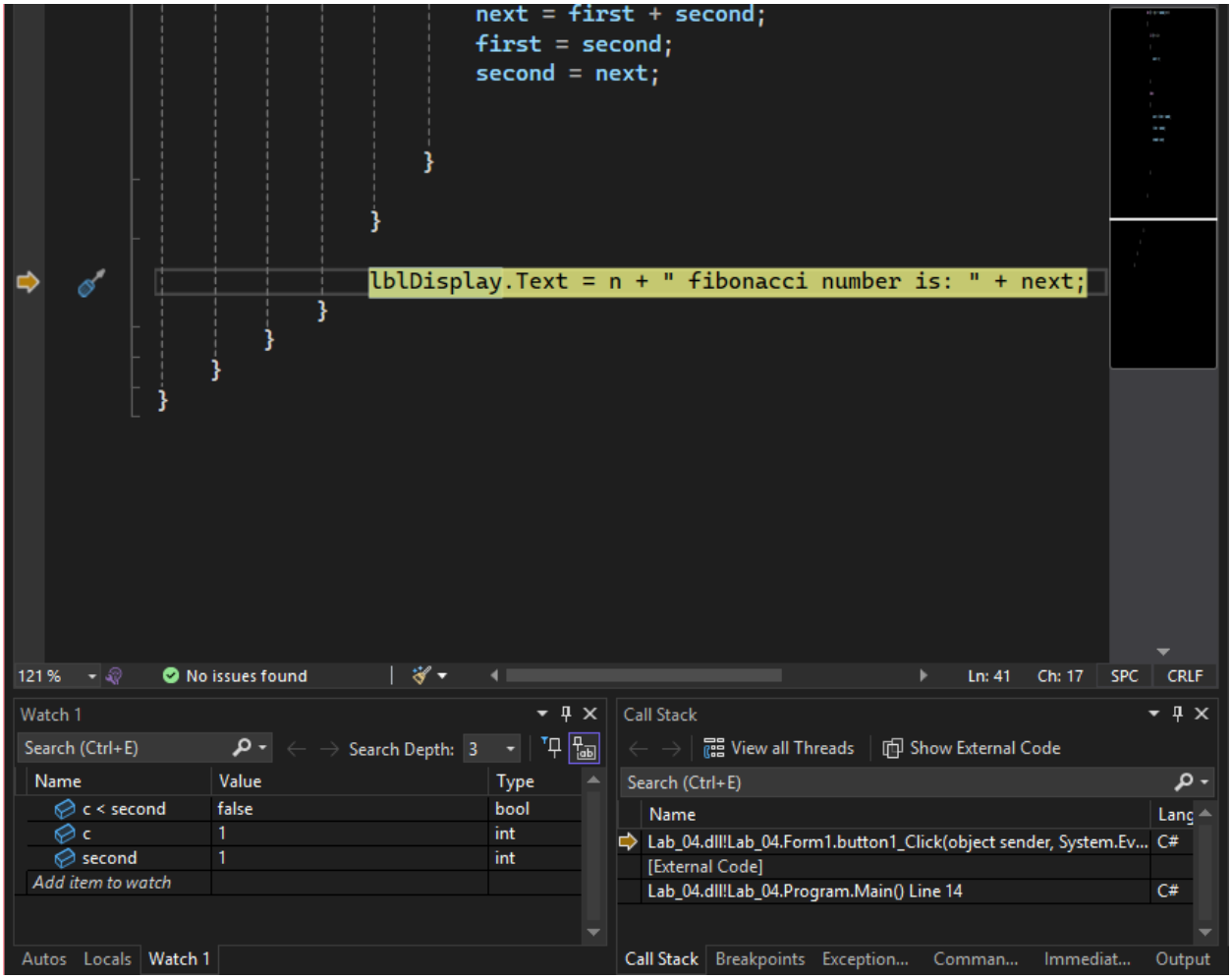
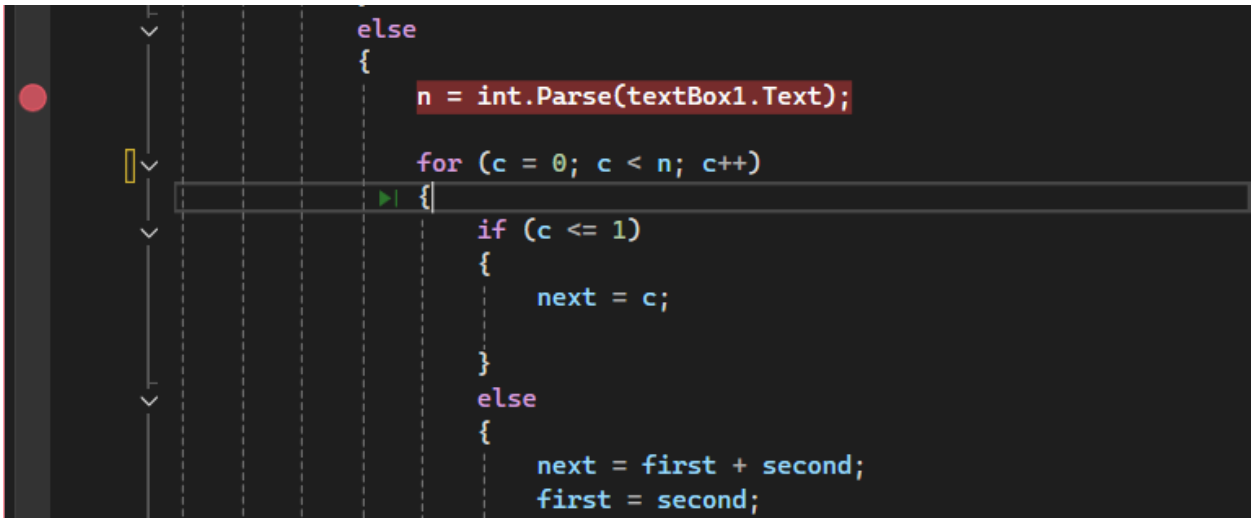
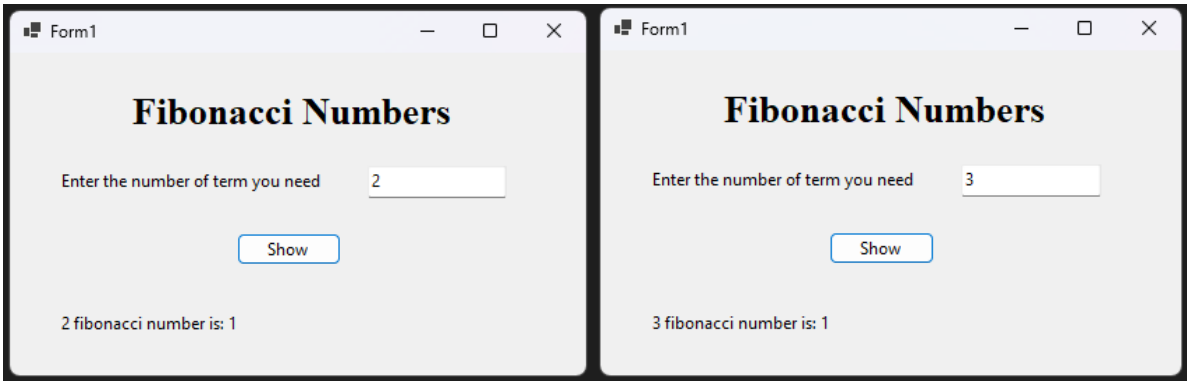


18.

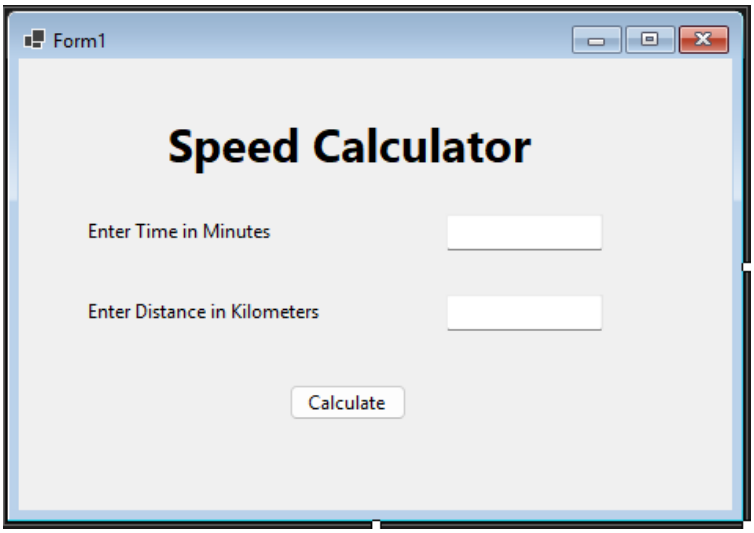


22.



Exercise 02

01.

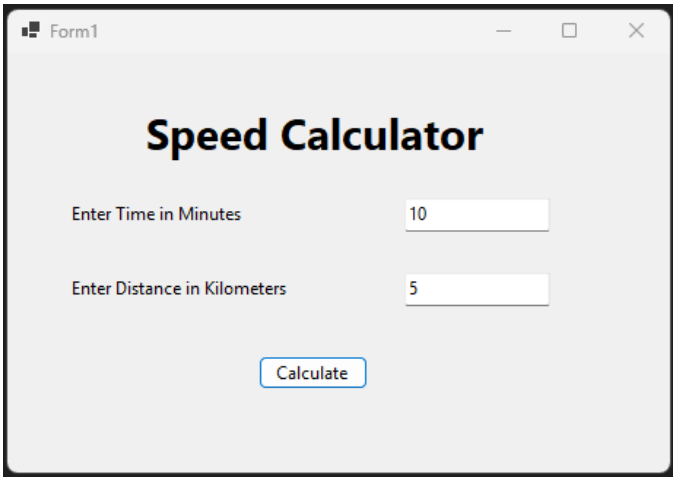


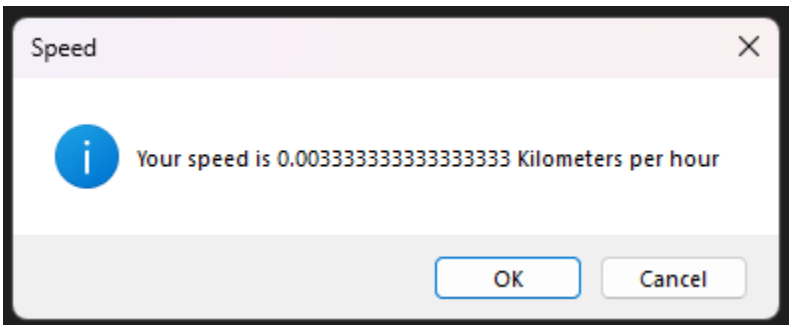
05.

```
namespace SpeedCalculator
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void btnCal_Click(object sender, EventArgs e)
        {
            double minutes = double.Parse(txtTime.Text);
            double distance = double.Parse(txtDistance.Text);
            double hours = 0, speed;
```

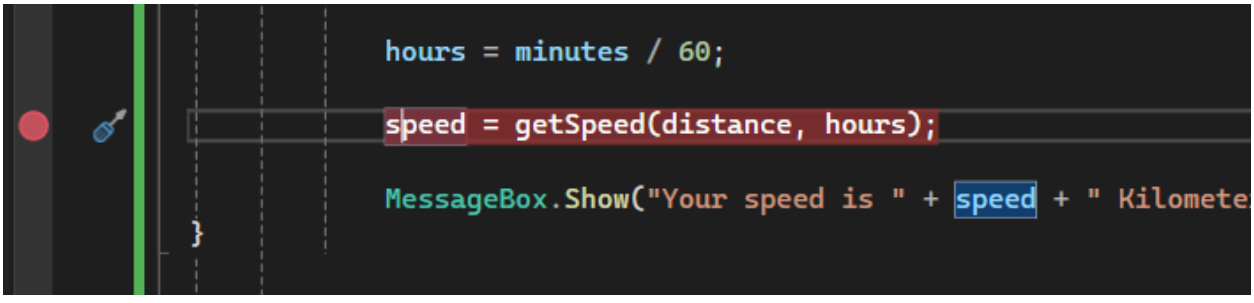
```
            hours = minutes / 60;

            speed = getSpeed(distance, hours);

            MessageBox.Show("Your speed is " + speed + " Kilometers per hour", "Speed",
MessageBoxButtons.OKCancel, MessageBoxIcon.Information);
}

        public double getSpeed(double hours, double distance)
        {
            double speed = distance / hours;
            return speed;
        }
    }
}
```

06.





08.



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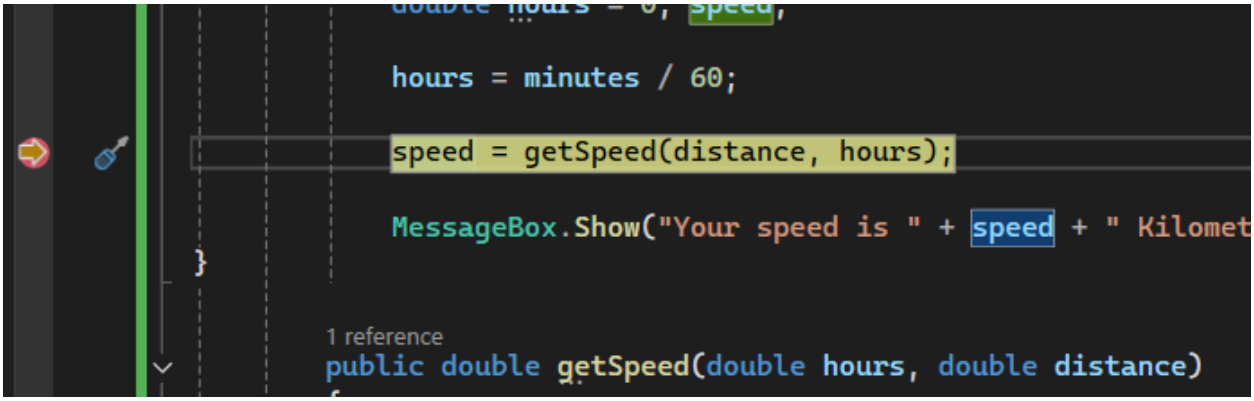
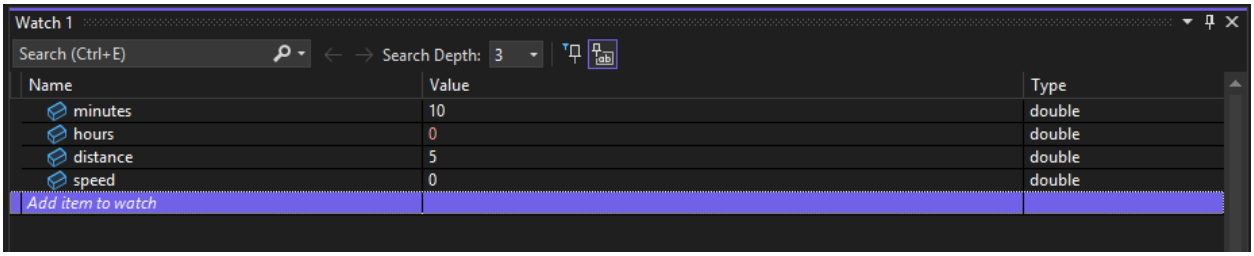
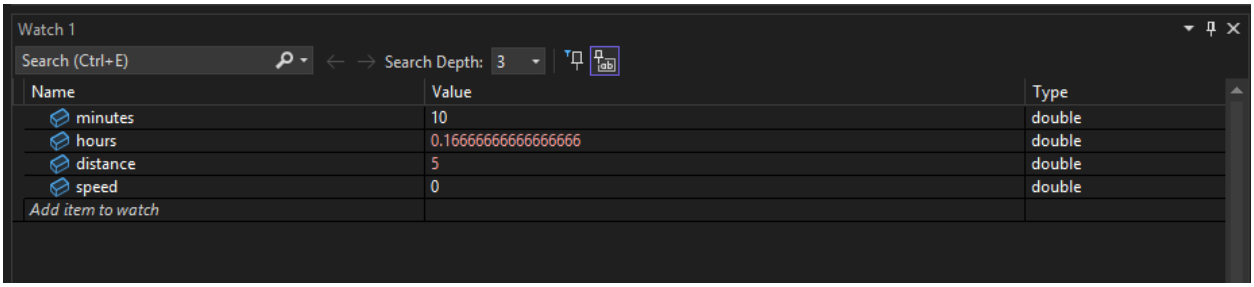
09.

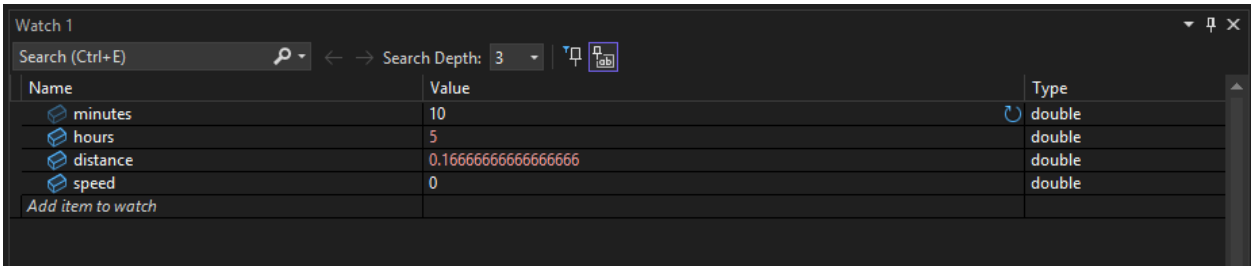


11.



16.





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18.

```
            hours = minutes / 60;

            speed = getSpeed(distance, hours);   ≤ 4,981ms elapsed

            MessageBox.Show("Your speed is " + speed + " Kilometer
        }

        1 reference
        public double getSpeed(double hours, double distance)
        {
            double speed = distance / hours;
            return speed;
        }
```

```
            speed = getSpeed(hours, distance);

            MessageBox.Show("Your speed is " + speed + " Kilometers per hour",
        }

        1 reference
        public double getSpeed(double hours, double distance)
        {
            double speed = distance / hours;
            return speed;
        }
    }
}
```

19.