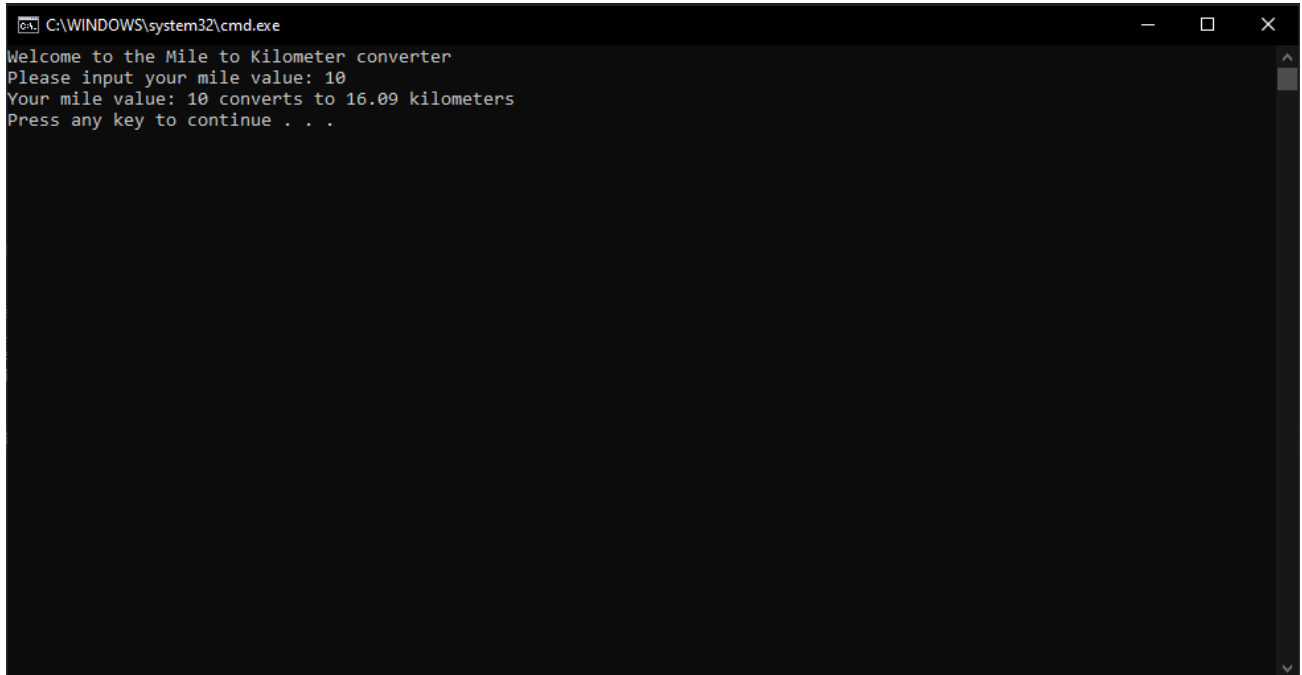
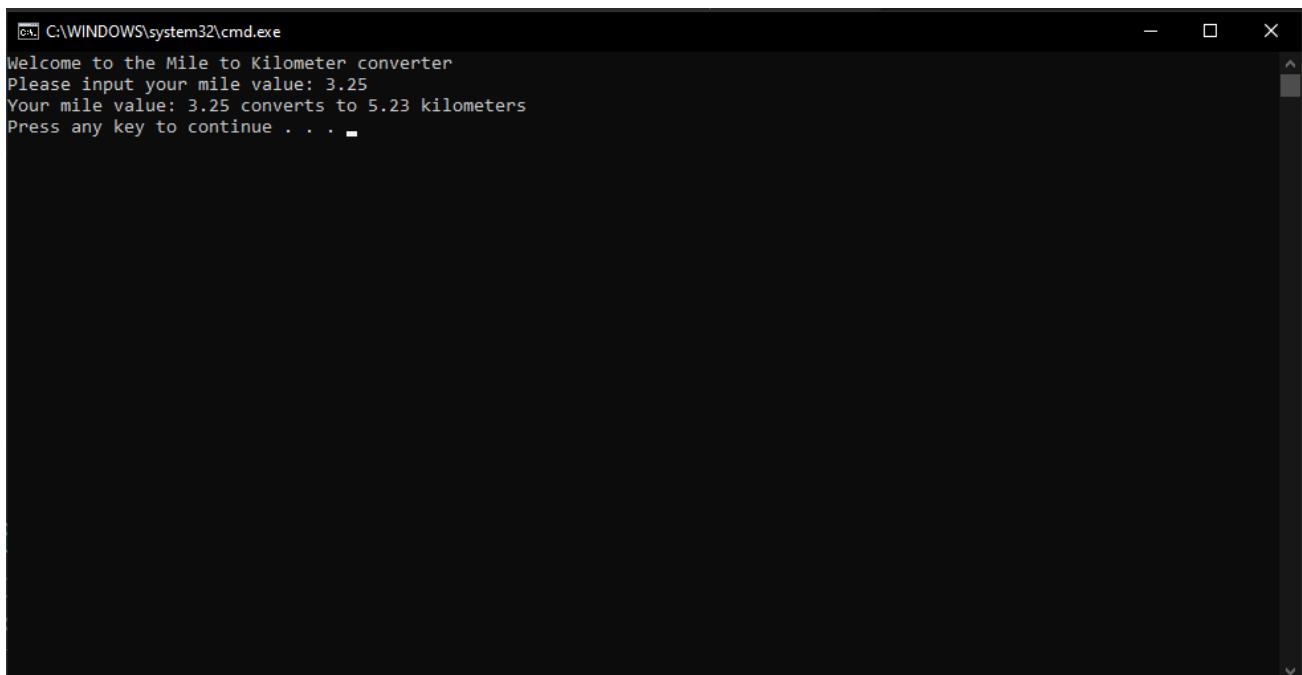


1. Write a C# Console application that converts a mile into its equivalent metric kilometer measurement. The program asks the user to input the value of miles to be converted and displays the original miles and the converted value . Test your code with inputs (1) 10 miles, (2) 3.25 miles.



```
C:\WINDOWS\system32\cmd.exe
Welcome to the Mile to Kilometer converter
Please input your mile value: 10
Your mile value: 10 converts to 16.09 kilometers
Press any key to continue . . .
```



```
C:\WINDOWS\system32\cmd.exe
Welcome to the Mile to Kilometer converter
Please input your mile value: 3.25
Your mile value: 3.25 converts to 5.23 kilometers
Press any key to continue . . .
```

```
class Program
{
    static void Main(string[] args)
    {
        double mile, km;
        Console.WriteLine("Welcome to the Mile to Kilometer converter");
        Console.Write("Please input your mile value: ");
        string mileS = Console.ReadLine();
        mile = Convert.ToDouble(mileS);
        km = mile * 1.60934;
        km=Math.Round(km, 2);
        Console.WriteLine("Your mile value: " + mile + " converts to " + km + " kilometers");
    }
}
```

2. Design a C# Windows Forms Application that solves Problem 1.

The screenshot shows a Windows Forms application titled "Mile to Kilometer Converter". The interface has a gray background. At the top, the title "Mile to Kilometer Converter" is displayed in a large, bold, black font. Below the title, there is a text box labeled "Mile(s)" containing the value "10". In the center, there is a large, light gray button with a blue border labeled "Convert". Below the "Convert" button, there is a text box labeled "Kilometer(s)" containing the value "16.09". To the right of the "Kilometer(s)" text box, there are two buttons: "Clear" and "Exit", both in a light gray box. The window has a standard Windows title bar with minimize, maximize, and close buttons.

The screenshot shows the same "Mile to Kilometer Converter" application. The "Mile(s)" text box now contains the value "3.25". The "Kilometer(s)" text box now contains the value "5.23". The "Convert" button, "Clear" button, and "Exit" button remain in the same positions. The window title and background are consistent with the previous screenshot.

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

    private void button1_Click(object sender, EventArgs e)
    {
        double mile, km;
        string mileS = textBoxMile.Text;
        mile = Convert.ToDouble(mileS);
        km = mile * 1.60934;
        km = Math.Round(km, 2);
        string kilometer = Convert.ToString(km);
        textBoxKM.Text = kilometer;
    }

    private void buttonClear_Click(object sender, EventArgs e)
    {
        textBoxMile.Clear();
        textBoxKM.Clear();
    }

    private void buttonExit_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }
}
```

Write a C# program (Your choice of Windows Forms application , or, Console Application) that computes a weighted total grade (with precision to 1 decimal digit).

Grading Calculator

Homework (10%)	Quizzes (20%)	Projects (25%)	Exams (20%)	Final Exam (25%)
97	60	82	75	80

Calculate Grade

F D C B A

☹ ☹ ☹ ☹ ☹

Total Grade

77.2

Clear

Exit

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

```

    }

    private void button1_Click(object sender, EventArgs e)
    {
        double hw, quiz, project, exam, finalexam, sum;
        string hwS = textBoxHW.Text;
        hw = Convert.ToDouble(hwS) * 0.10;
        string quizS = textBoxQuiz.Text;
        quiz = Convert.ToDouble(quizS) * 0.20;
        string projectS = textBoxProject.Text;
        project = Convert.ToDouble(projectS) * 0.25;
        string examS = textBoxExam.Text;
        exam = Convert.ToDouble(examS) * 0.20;
        string feS = textBoxFinalExam.Text;
        finalexam = Convert.ToDouble(feS) * 0.25;
        sum = hw + quiz + project + exam + finalexam;
        Math.Round(sum, 1);
        string sumfinal = Convert.ToString(sum);
        textBoxTotalGrade.Text = sumfinal;
    }

    private void button2_Click(object sender, EventArgs e)
    {
        textBoxExam.Clear();
        textBoxFinalExam.Clear();
        textBoxHW.Clear();
        textBoxProject.Clear();
        textBoxQuiz.Clear();
        textBoxTotalGrade.Clear();
    }

    private void buttonExit_Click(object sender, EventArgs e)
    {
        Application.Exit();
    }
}

```