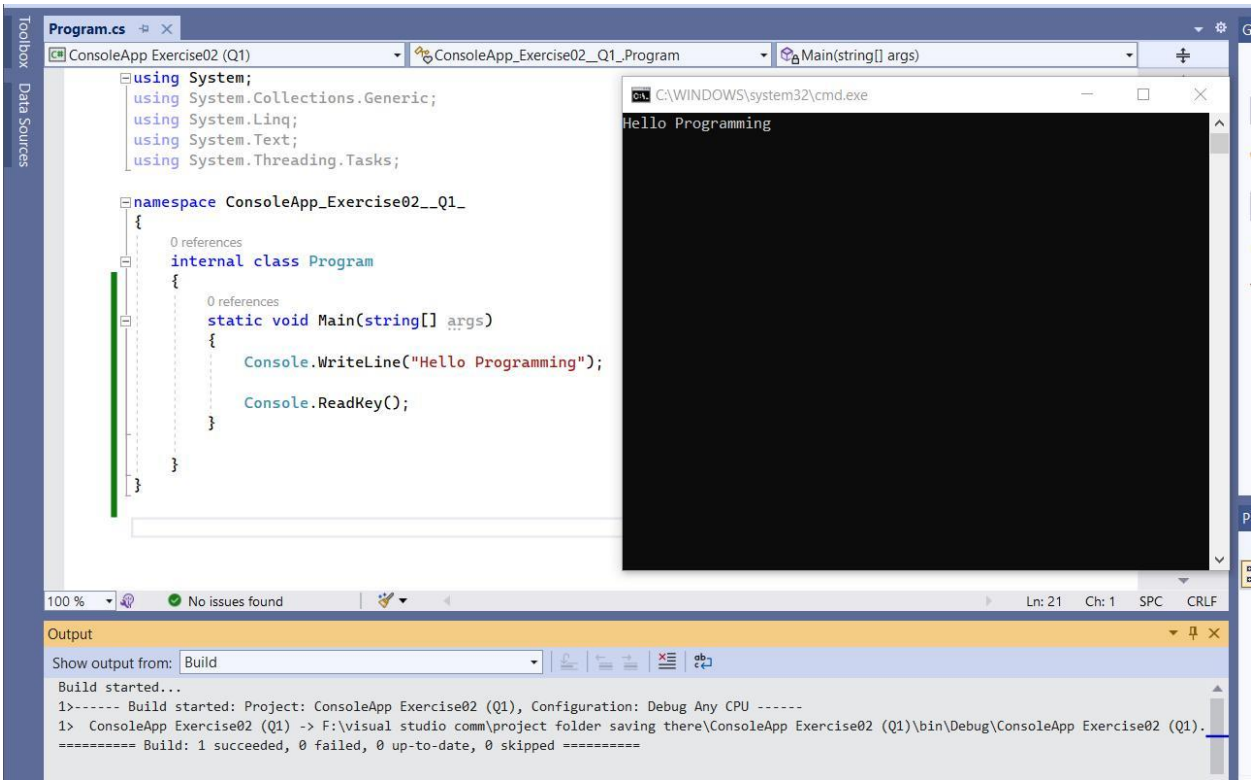
//Lasantha Karunarathne

Exercise 02

Q1

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q1_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello Programming");

            Console.ReadKey();
        }

    }
}
```

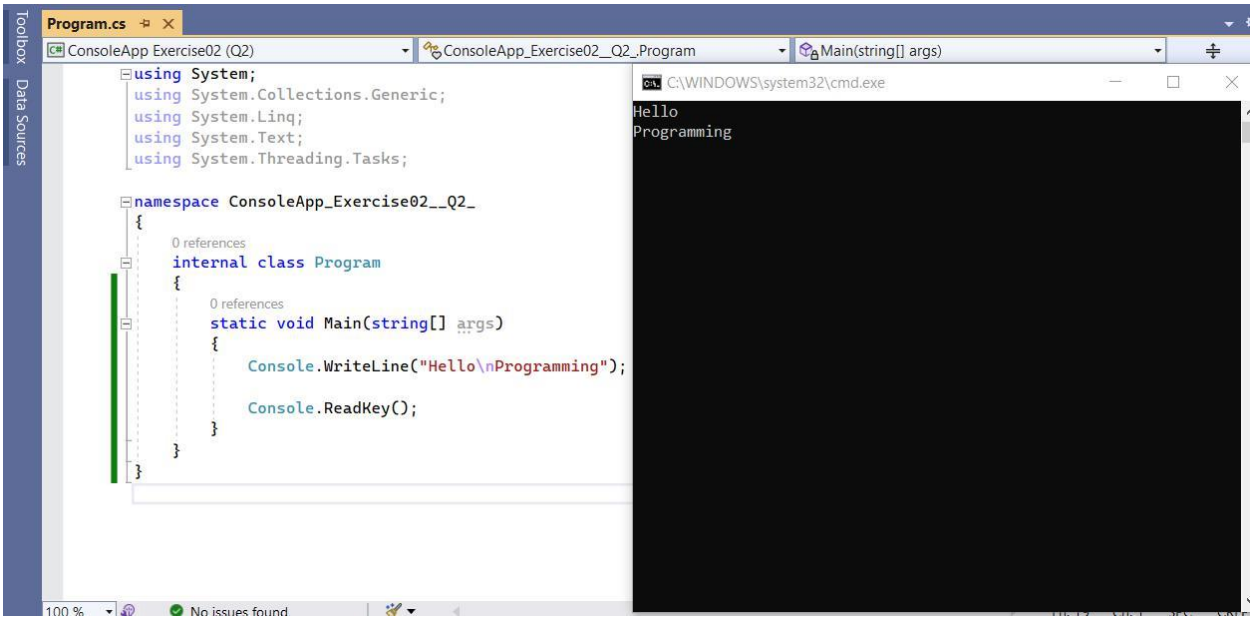
Output



Q2

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q2_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Hello\nProgramming");

            Console.ReadKey();
        }
    }
}
```

Output

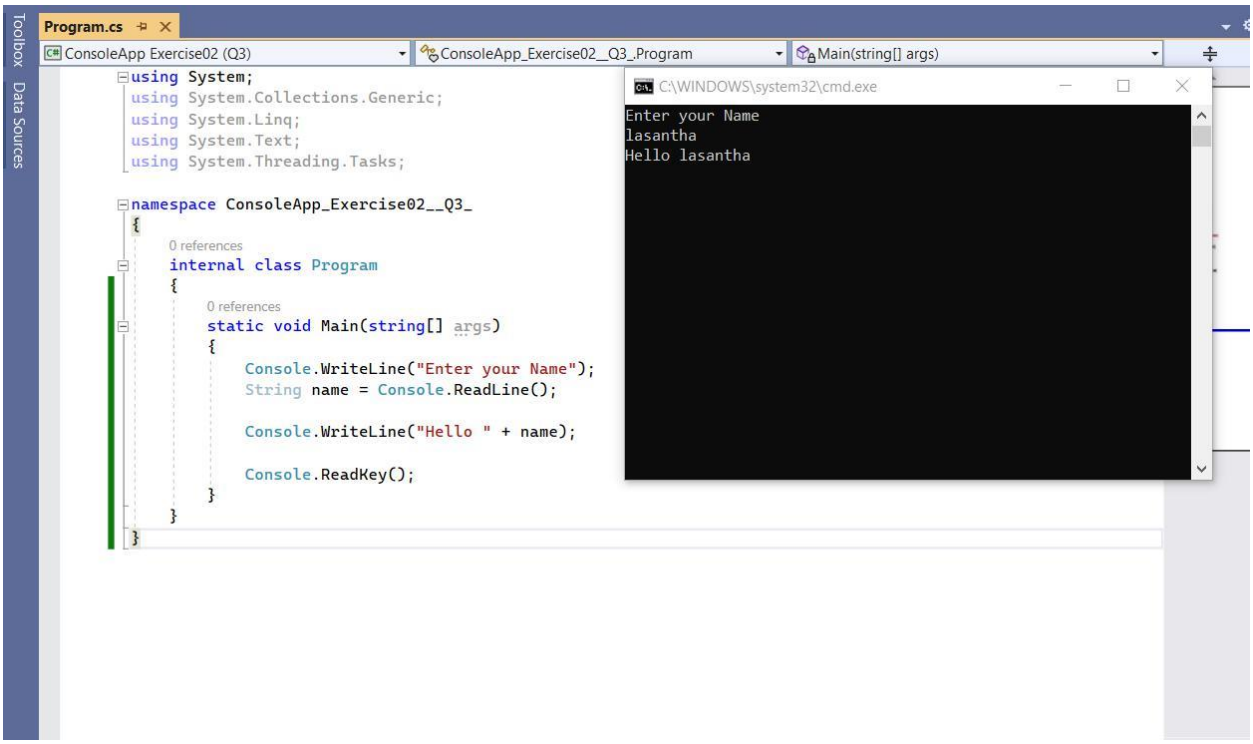


Q3

```
using System;
using System.Collections.Generic;
```

```
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q3_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter your Name");
            String name = Console.ReadLine();

            Console.WriteLine("Hello " + name);

            Console.ReadKey();
        }
    }
}
```

Output

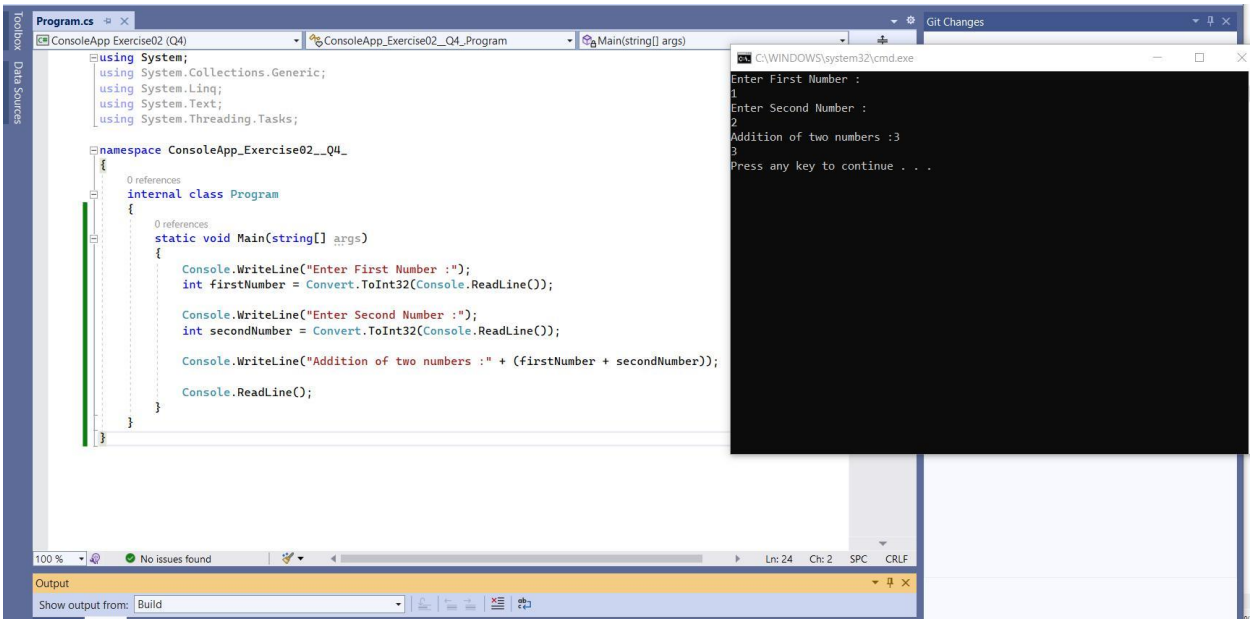


Q4

```
using System;
using System.Collections.Generic;
using System.Linq;
```

```
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q4_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter First Number :");
            int firstNumber = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Second Number :");
            int secondNumber = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Addition of two numbers :" + (firstNumber +
secondNumber));

            Console.ReadLine();
        }
    }
}
```

Output

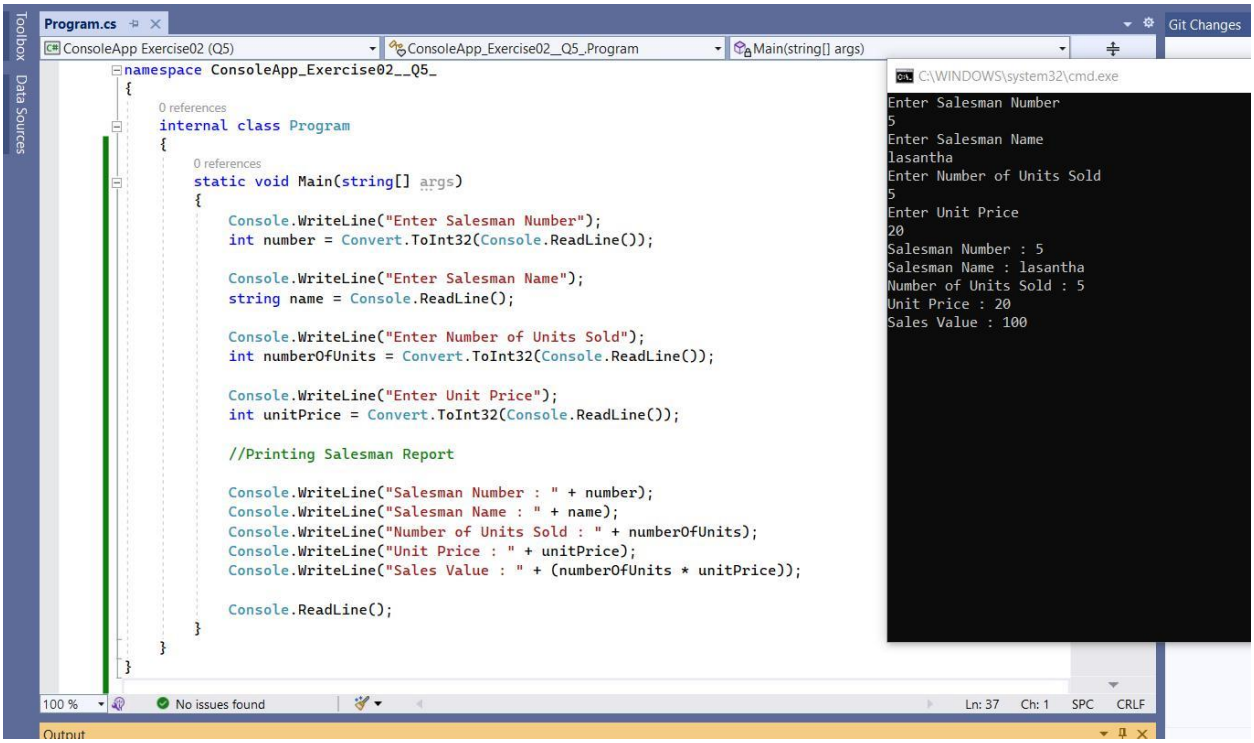


Q5

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q5_
{
```

```
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter Salesman Number");
            int number = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Salesman Name");
            string name = Console.ReadLine();

            Console.WriteLine("Enter Number of Units Sold");
            int numberOfUnits = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Unit Price");
            int unitPrice = Convert.ToInt32(Console.ReadLine());

            //Printing Salesman Report

            Console.WriteLine("Salesman Number : " + number);
            Console.WriteLine("Salesman Name : " + name);
            Console.WriteLine("Number of Units Sold : " + numberOfUnits);
            Console.WriteLine("Unit Price : " + unitPrice);
            Console.WriteLine("Sales Value : " + (numberOfUnits * unitPrice));

            Console.ReadLine();
        }
    }
}
```

Output

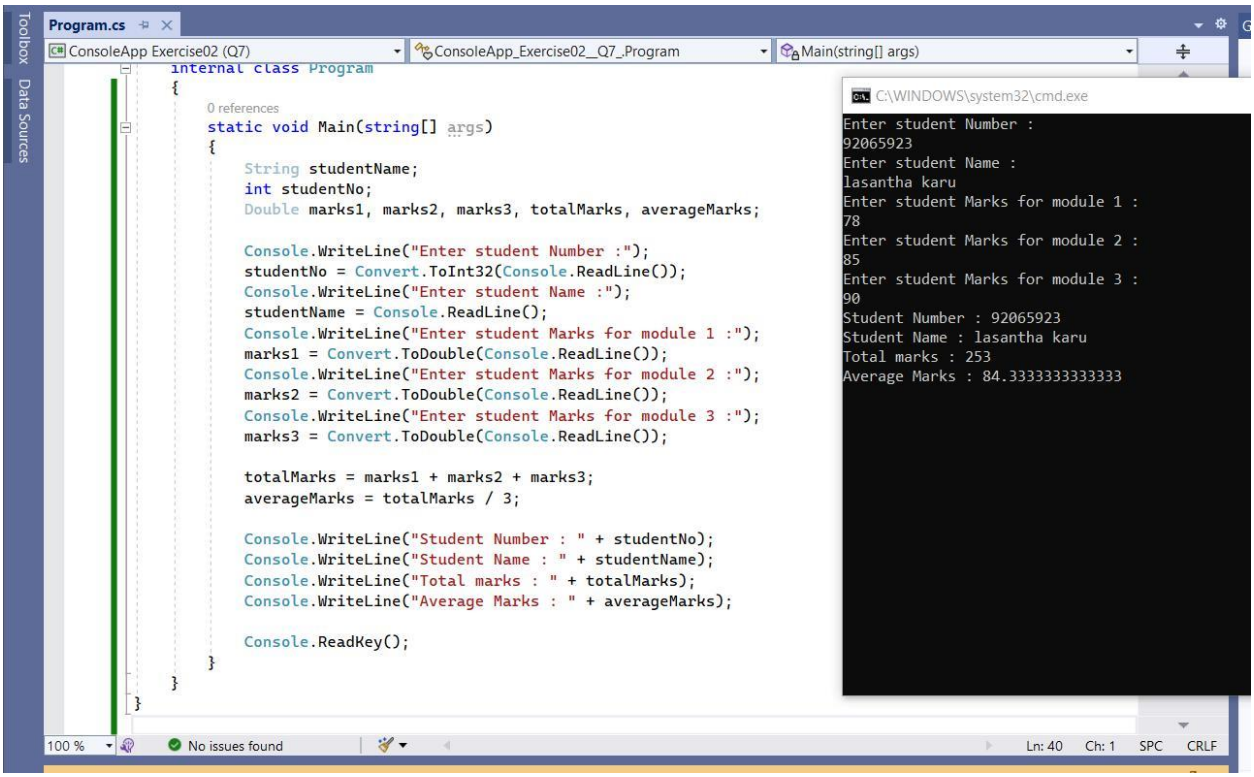


Q6= same Q to Q5

Q7

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q7_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            String studentName;
            int studentNo;
            Double marks1, marks2, marks3, totalMarks, averageMarks;

            Console.WriteLine("Enter student Number :");
            studentNo = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter student Name :");
            studentName = Console.ReadLine();
            Console.WriteLine("Enter student Marks for module 1 :");
            marks1 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 2 :");
            marks2 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 3 :");
            marks3 = Convert.ToDouble(Console.ReadLine());

            totalMarks = marks1 + marks2 + marks3;
            averageMarks = totalMarks / 3;

            Console.WriteLine("Student Number : " + studentNo);
            Console.WriteLine("Student Name : " + studentName);
            Console.WriteLine("Total marks : " + totalMarks);
            Console.WriteLine("Average Marks : " + averageMarks);

            Console.ReadKey();
        }
    }
}
```

Output

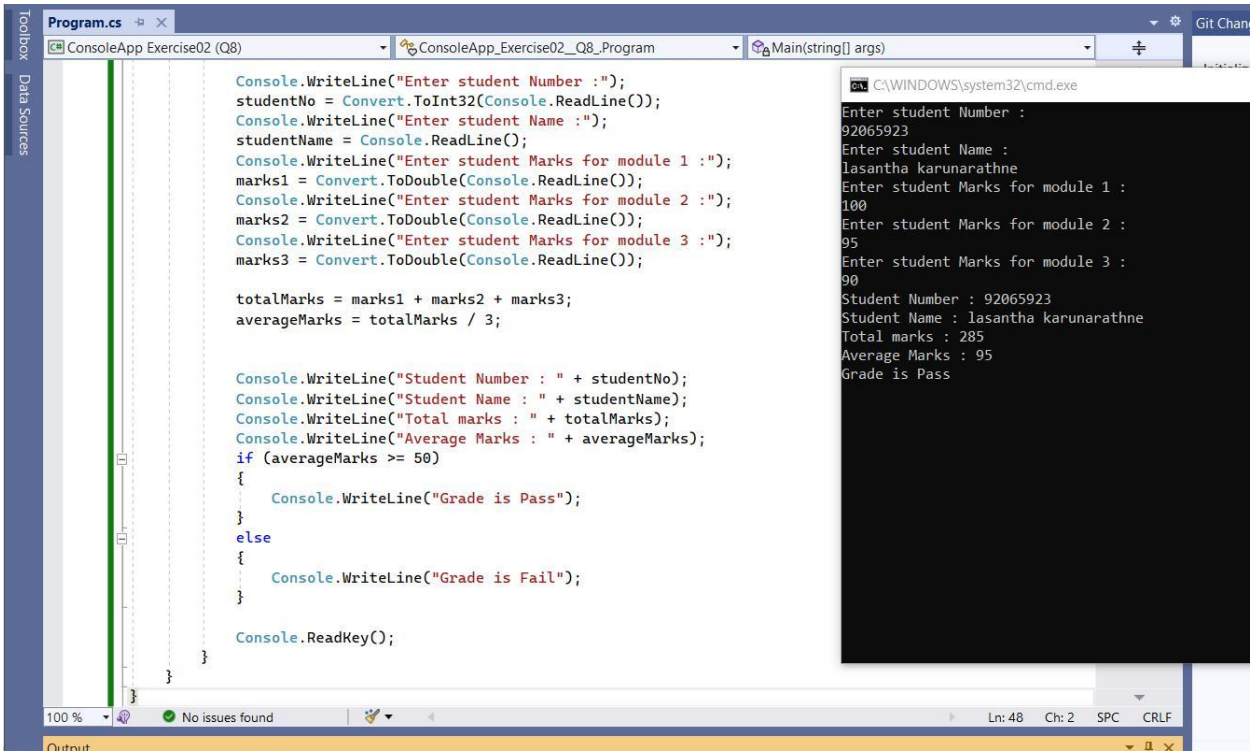


Q8

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q8_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            String studentName;
            int studentNo;
            Double marks1, marks2, marks3, totalMarks, averageMarks;

            Console.WriteLine("Enter student Number :");
            studentNo = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter student Name :");
            studentName = Console.ReadLine();
            Console.WriteLine("Enter student Marks for module 1 :");
            marks1 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 2 :");
            marks2 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 3 :");
```

```
            marks3 = Convert.ToDouble(Console.ReadLine());

            totalMarks = marks1 + marks2 + marks3;
            averageMarks = totalMarks / 3;


            Console.WriteLine("Student Number : " + studentNo);
            Console.WriteLine("Student Name : " + studentName);
            Console.WriteLine("Total marks : " + totalMarks);
            Console.WriteLine("Average Marks : " + averageMarks);
            if (averageMarks >= 50)
            {
                Console.WriteLine("Grade is Pass");
            }
            else
            {
                Console.WriteLine("Grade is Fail");
            }

            Console.ReadKey();
        }
    }
}
```

Output

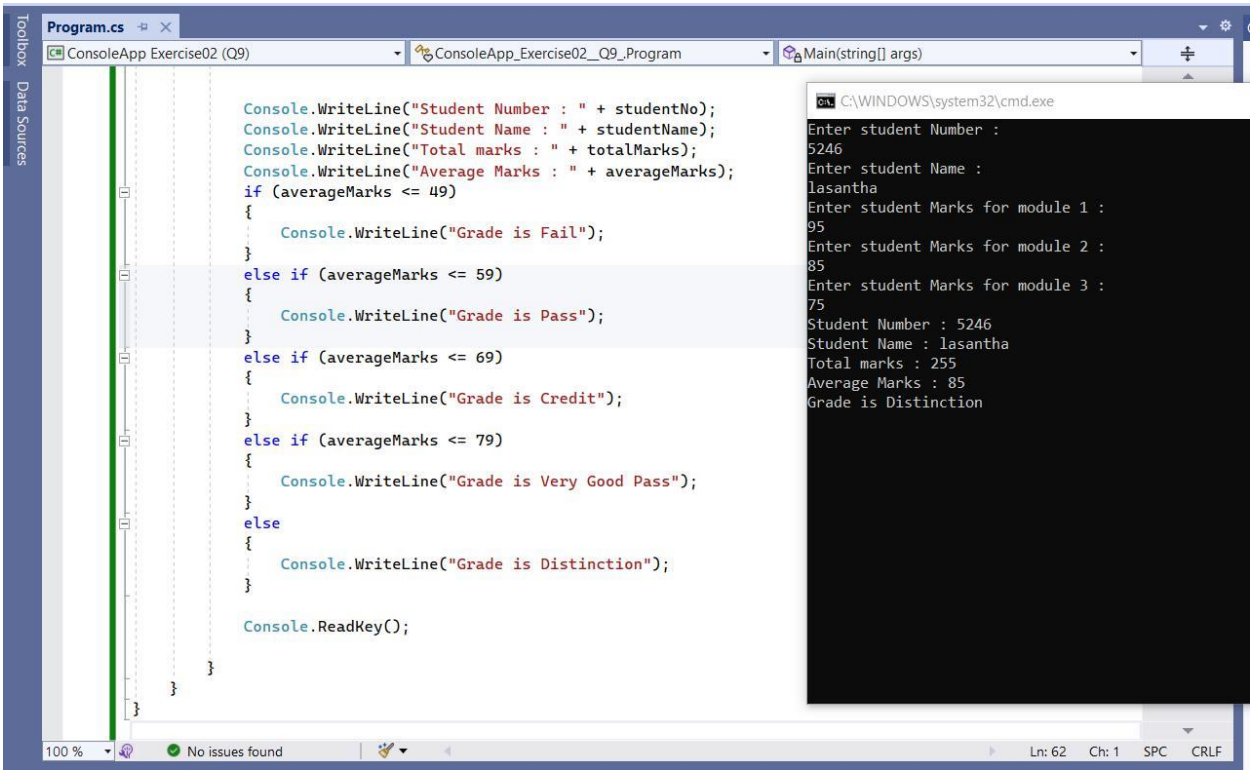


Q9

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q9_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            String studentName;
            int studentNo;
            Double marks1, marks2, marks3, totalMarks, averageMarks;

            Console.WriteLine("Enter student Number :");
            studentNo = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter student Name :");
            studentName = Console.ReadLine();
            Console.WriteLine("Enter student Marks for module 1 :");
            marks1 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 2 :");
            marks2 = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Enter student Marks for module 3 :");
            marks3 = Convert.ToDouble(Console.ReadLine());

            totalMarks = marks1 + marks2 + marks3;
            averageMarks = totalMarks / 3;


            Console.WriteLine("Student Number : " + studentNo);
            Console.WriteLine("Student Name : " + studentName);
            Console.WriteLine("Total marks : " + totalMarks);
            Console.WriteLine("Average Marks : " + averageMarks);
            if (averageMarks <= 49)
            {
                Console.WriteLine("Grade is Fail");
            }
            else if (averageMarks <= 59)
            {
                Console.WriteLine("Grade is Pass");
            }
            else if (averageMarks <= 69)
            {
                Console.WriteLine("Grade is Credit");
            }
            else if (averageMarks <= 79)
            {
                Console.WriteLine("Grade is Very Good Pass");
            }
            else
            {
                Console.WriteLine("Grade is Distinction");
            }
```

```
            Console.ReadKey();

        }
    }
}
```

Output

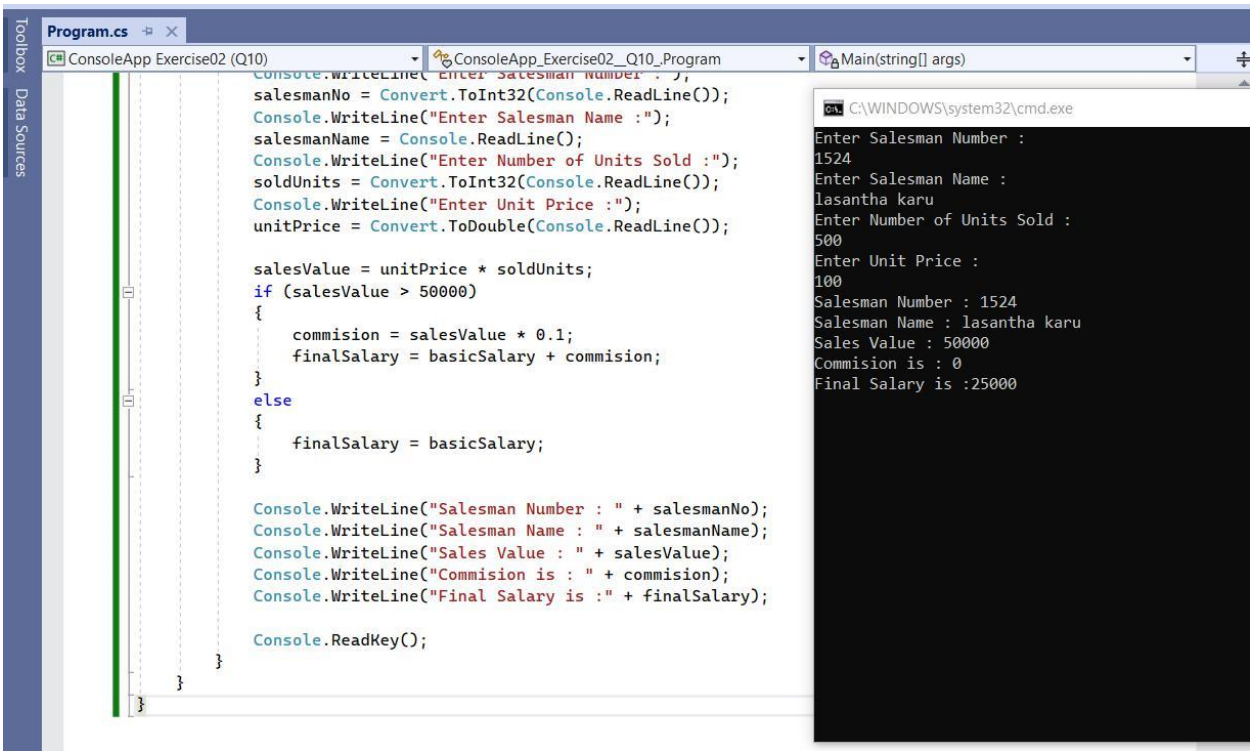


Q10

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q10_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            String salesmanName;
            int salesmanNo, soldUnits;
            Double unitPrice, salesValue, finalSalary = 0, commision = 0;
            Double basicSalary = 25000;
```

```
            Console.WriteLine("Enter Salesman Number :");
            salesmanNo = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Salesman Name :");
            salesmanName = Console.ReadLine();
            Console.WriteLine("Enter Number of Units Sold :");
            soldUnits = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Unit Price :");
            unitPrice = Convert.ToDouble(Console.ReadLine());

            salesValue = unitPrice * soldUnits;
            if (salesValue > 50000)
            {
                commision = salesValue * 0.1;
                finalSalary = basicSalary + commision;
            }
            else
            {
                finalSalary = basicSalary;
            }

            Console.WriteLine("Salesman Number : " + salesmanNo);
            Console.WriteLine("Salesman Name : " + salesmanName);
            Console.WriteLine("Sales Value : " + salesValue);
            Console.WriteLine("Commision is : " + commision);
            Console.WriteLine("Final Salary is :" + finalSalary);

            Console.ReadKey();
        }
    }
}
```

Output

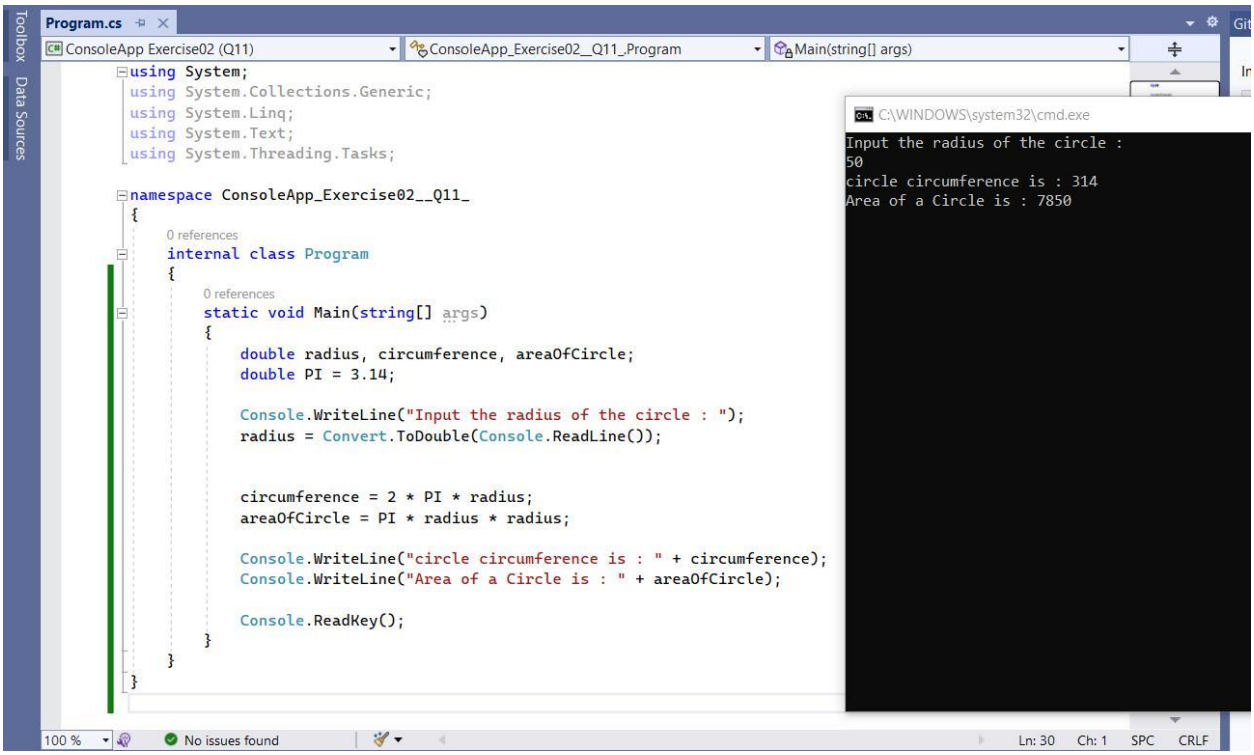


Q11

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q11_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            double radius, circumference, areaOfCircle;
            double PI = 3.14;

            Console.WriteLine("Input the radius of the circle : ");
            radius = Convert.ToDouble(Console.ReadLine());


            circumference = 2 * PI * radius;
            areaOfCircle = PI * radius * radius;

            Console.WriteLine("circle circumference is : " + circumference);
            Console.WriteLine("Area of a Circle is : " + areaOfCircle);

            Console.ReadKey();
```

```
        }
    }
}
```

Output

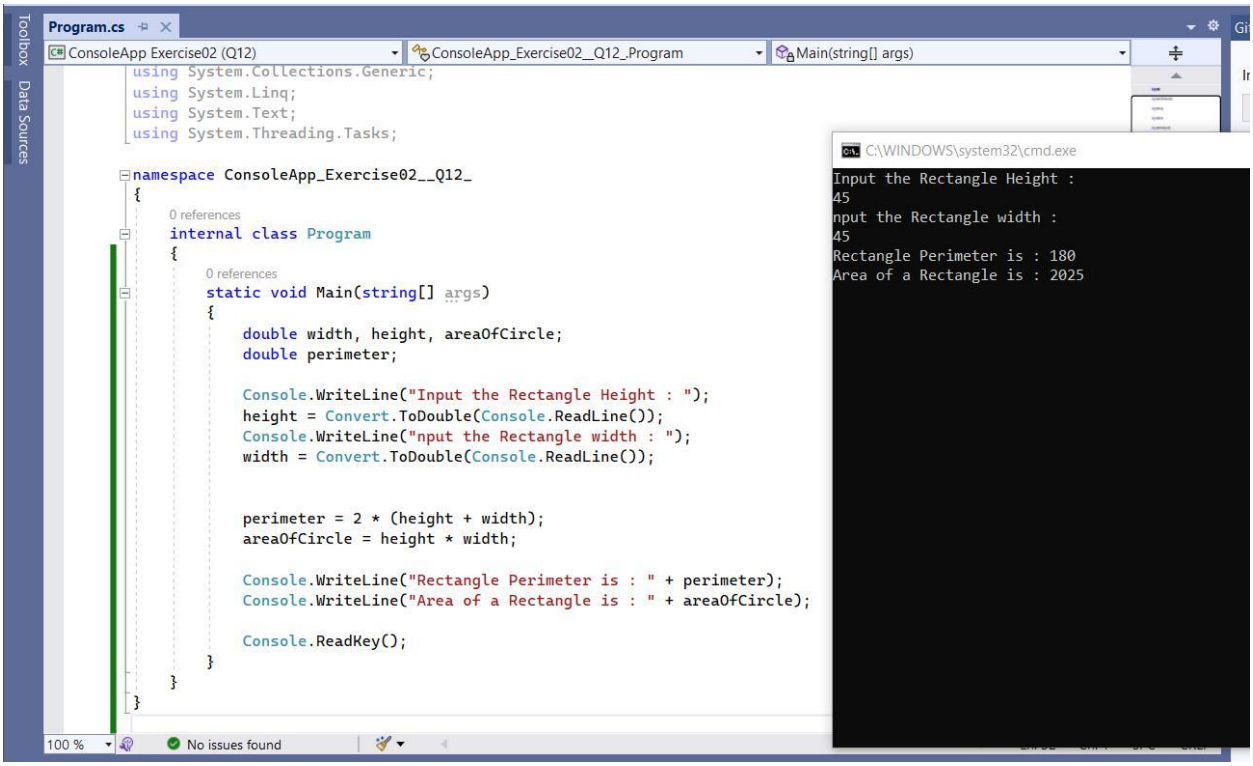


Q12

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q12_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            double width, height, areaOfCircle;
            double perimeter;

            Console.WriteLine("Input the Rectangle Height : ");
            height = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("nput the Rectangle width : ");
            width = Convert.ToDouble(Console.ReadLine());


            perimeter = 2 * (height + width);
```

```
            areaOfCircle = height * width;

            Console.WriteLine("Rectangle Perimeter is : " + perimeter);
            Console.WriteLine("Area of a Rectangle is : " + areaOfCircle);

            Console.ReadKey();
        }
    }
}
```

Output

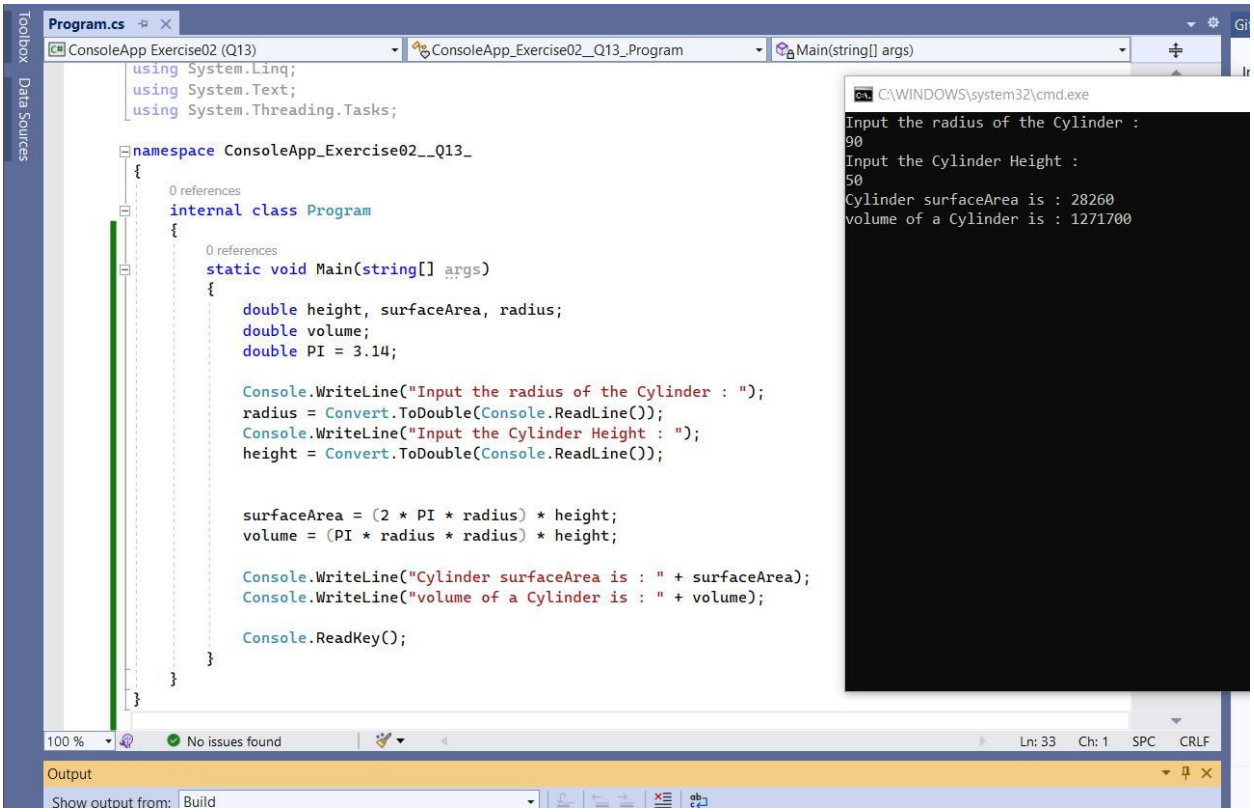


Q13

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp_Exercise02__Q13_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            double height, surfaceArea, radius;
            double volume;
            double PI = 3.14;
```

```
            Console.WriteLine("Input the radius of the Cylinder : ");
            radius = Convert.ToDouble(Console.ReadLine());
            Console.WriteLine("Input the Cylinder Height : ");
            height = Convert.ToDouble(Console.ReadLine());


            surfaceArea = (2 * PI * radius) * height;
            volume = (PI * radius * radius) * height;

            Console.WriteLine("Cylinder surfaceArea is : " + surfaceArea);
            Console.WriteLine("volume of a Cylinder is : " + volume);

            Console.ReadKey();
        }
    }
}
```

Output



Q14

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace ConsoleApp_Exercise02__Q14_15_
{
    internal class Program
    {
        static void Main(string[] args)
        {
            double width, height, areaOfCircle;
            double perimeter;
            double radius, circumference;
            double PI = 3.14;
            double surfaceArea;
            double volume;
            int userChoice;

            Console.WriteLine("-------------- Select the choice and Type the number
You want :-----------------");
            Console.WriteLine("1 - The area and the circumference of the circle");
            Console.WriteLine("2 - The perimeter and the area of the rectangle");
            Console.WriteLine("3 - The surface area and the volume of the
cylinder");
            Console.WriteLine("0 - If you want to exit type zero");
            Console.WriteLine("-----------------------------------------------------
---------------------------");
            Console.Write("Input the Number above list : ");
            userChoice = Convert.ToInt32(Console.ReadLine());

            while (userChoice != 0)
            {

                if (userChoice == 1)
                {
                    Console.WriteLine("Input the radius of the circle : ");
                    radius = Convert.ToDouble(Console.ReadLine());


                    circumference = 2 * PI * radius;
                    areaOfCircle = PI * radius * radius;

                    Console.WriteLine("circle circumference is : " + circumference);
                    Console.WriteLine("Area of a Circle is : " + areaOfCircle);


                }
                else if (userChoice == 2)
                {
                    Console.WriteLine("Input the Rectangle Height : ");
                    height = Convert.ToDouble(Console.ReadLine());
                    Console.WriteLine("Input the Rectangle width : ");
                    width = Convert.ToDouble(Console.ReadLine());


                    perimeter = 2 * (height + width);
                    areaOfCircle = height * width;

                    Console.WriteLine("Rectangle Perimeter is : " + perimeter);
                    Console.WriteLine("Area of a Rectangle is : " + areaOfCircle);
                }
                else if (userChoice == 3)
```

```
                {
                    Console.WriteLine("Input the radius of the Cylinder : ");
                    radius = Convert.ToDouble(Console.ReadLine());
                    Console.WriteLine("Input the Cylinder Height : ");
                    height = Convert.ToDouble(Console.ReadLine());


                    surfaceArea = (2 * PI * radius) * height;
                    volume = (PI * radius * radius) * height;

                    Console.WriteLine("Cylinder surfaceArea is : " + surfaceArea);
                    Console.WriteLine("volume of a Cylinder is : " + volume);
                }
                else
                {
                    Console.WriteLine("Input Number is wrong Try again");
                }

                Console.Write("Input the Number above list : ");
                userChoice = Convert.ToInt32(Console.ReadLine());
            }

            Console.Write("Thank you");
            Console.ReadKey();

        }
    }
}
```

Output