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RAPID APPLICATION DEVELOPMENT

Control Logic - Exercise - 01

01.

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

namespace ConsoleApp8
{
    internal class controlLogic1
    {
        static void Main(string[] args)
        {
            Console.Write("Input 1st number: ");
            int number1 = Convert.ToInt32(Console.ReadLine());

            Console.Write("Input 2nd number: ");
            int number2 = Convert.ToInt32(Console.ReadLine());

            if (number1 == number2)
            {
                Console.WriteLine(number1 + " and " + number2 + " are equal");
            }
            else
            {
                Console.WriteLine(number1 + " and " + number2 + " are not equal");
            }
    }
}
```

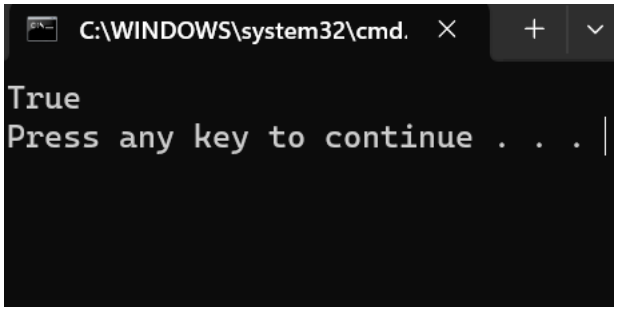
OUTPUT

```
C:\WINDOWS\system32\cmd.
Input 1st number: 5
Input 2nd number: 5
5 and 5 are equal
Press any key to continue . . .
```

02.

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

namespace ConsoleApp15
{
    0 references
    internal class Program
    {
        0 references
        static void Main(string[] args)
        {
            int x = 1;
            Console.WriteLine(x % 2 != 0 && x > 0);
        }
    }
}
```

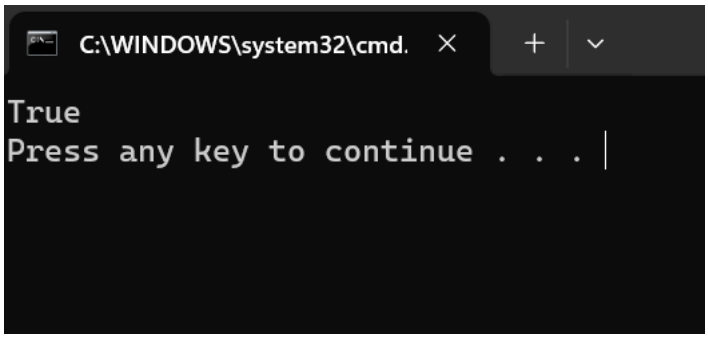
OUTPUT



03.

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

namespace ConsoleApp10
{
    internal class XYPOSitive
    {
        static void Main(string[] args)
        {
            int x = 3;
            int y = 4;

            bool bothPositive = (x > 0) && (y > 0);

            Console.WriteLine(bothPositive);
        }
    }
}

```

OUTPUT



04.

```
{
    0 references
    internal class Program
    {
        0 references
        static void Main(string[] args)
        {
            Console.WriteLine("Enter the first number: ");
            int num1 = int.Parse(Console.ReadLine());

            Console.WriteLine("Enter the second number: ");
            int num2 = int.Parse(Console.ReadLine());

            int largernum;

            if (num1 > num2)
            {
                largernum = num1;
            }
            else
            {
                largernum = num2;
            }

            Console.WriteLine($"The larger number is: {largernum} ");
        }
    }
}
```

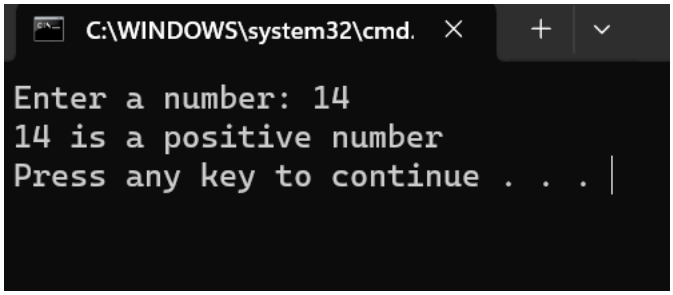
OUTPUT

```
C:\WINDOWS\system32\cmd.
Enter the first number:
3
Enter the second number:
4
The larger number is: 4
Press any key to continue . . .
```

05.

```
namespace ConsoleApp16
{
    0 references
    internal class Program
    {
        0 references
        static void Main(string[] args)
        {

            Console.Write("Enter a number: ");
            int number = int.Parse(Console.ReadLine());

            if (number > 0)
            {
                Console.WriteLine($"{number} is a positive number");
            }
            else if (number < 0)
            {
                Console.WriteLine($"{number} is a negative number");
            }
            else
            {
                Console.WriteLine($"{number} is zero");
            }
        }
    }
}
```

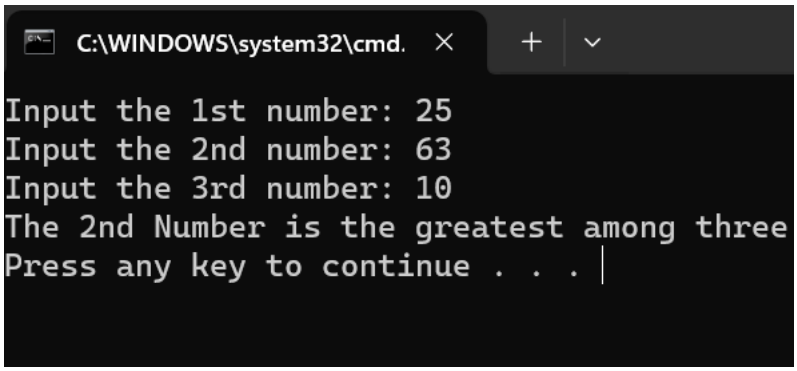
OUTPUT



06.

```
0 references
static void Main(string[] args)
{
    Console.Write("Input the 1st number: ");
    int num1 = Convert.ToInt32(Console.ReadLine());

    Console.Write("Input the 2nd number: ");
    int num2 = Convert.ToInt32(Console.ReadLine());

    Console.Write("Input the 3rd number: ");
    int num3 = Convert.ToInt32(Console.ReadLine());

    int largestNumber = num1;

    if (num2 > largestNumber)
    {
        largestNumber = num2;
    }

    if (num3 > largestNumber)
    {
        largestNumber = num3;
    }
    Console.WriteLine("The 2nd Number is the greatest among three");

}
}
```

OUTPUT



07.

```
0 references
static void Main(string[] args)
{
    Console.Write("Input the marks obtained in Physics: ");
    int physicsMarks = int.Parse(Console.ReadLine());

    Console.Write("Input the marks obtained in Chemistry: ");
    int chemistryMarks = int.Parse(Console.ReadLine());

    Console.Write("Input the marks obtained in Mathematics: ");
    int mathMarks = int.Parse(Console.ReadLine());

    int totalMarks = physicsMarks + chemistryMarks + mathMarks;

    if (mathMarks >= 65 && physicsMarks >= 55 && chemistryMarks >= 50 && totalMarks >= 180)
    {
        Console.WriteLine("The candidate is eligible for admission");
    }
    else if (totalMarks >= 140)
    {
        Console.WriteLine("The candidate is eligible for admission");
    }
    else
    {
        Console.WriteLine("The candidate is not eligible for admission");
    }
}
```

OUTPUT