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RAPID APPLICATION DEVELOPMENT

Control Logic - Exercise - 01

01.

```
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace ConsoleApp8
8  {
9      internal class controlLogic1
10     {
11         static void Main(string[] args)
12         {
13             Console.WriteLine("Input 1st number: ");
14             int number1 = Convert.ToInt32(Console.ReadLine());
15
16             Console.WriteLine("Input 2nd number: ");
17             int number2 = Convert.ToInt32(Console.ReadLine());
18
19             if (number1 == number2)
20             {
21                 Console.WriteLine(number1 + " and " + number2 + " are equal");
22             }
23             else
24             {
25                 Console.WriteLine(number1 + " and " + number2 + " are not equal");
26             }
27         }
28     }
```

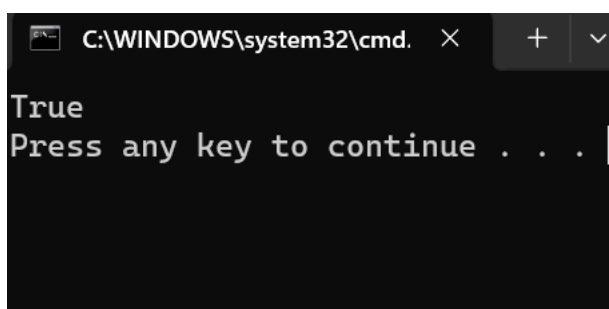
OUTPUT

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

02.

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace ConsoleApp15
8  {
9      internal class Program
10     {
11         static void Main(string[] args)
12         {
13             int x = 1;
14             Console.WriteLine(x % 2 != 0 && x > 0);
15         }
16     }
17 }
18
19
```

OUTPUT



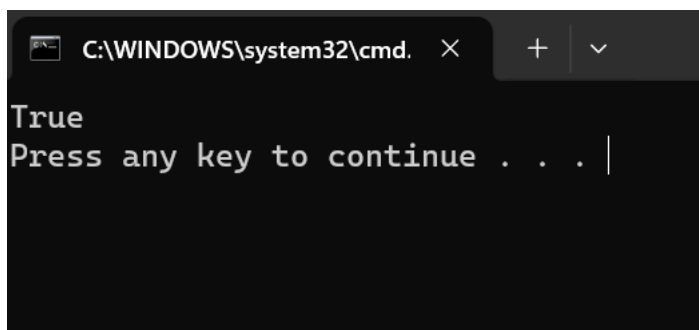
The screenshot shows a Windows command prompt window with the title bar "C:\WINDOWS\system32\cmd." and standard window controls. The command prompt displays the output "True" on the first line and "Press any key to continue . . ." on the second line, followed by a cursor.

```
C:\WINDOWS\system32\cmd.
True
Press any key to continue . . .
```

03.

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace ConsoleApp10
8  {
9      internal class XYPositive
10     {
11         static void Main(string[] args)
12         {
13             int x = 3;
14             int y = 4;
15
16             bool bothPositive = (x > 0) && (y > 0);
17
18             Console.WriteLine(bothPositive);
19         }
20     }
21 }
22
```

OUTPUT



The screenshot shows a Windows command prompt window with the title bar "C:\WINDOWS\system32\cmd." and standard window controls. The command prompt displays the output of the program: "True" on the first line, followed by "Press any key to continue . . ." on the second line, with a cursor at the end of the second line.

```
C:\WINDOWS\system32\cmd.  X  +  v
True
Press any key to continue . . . |
```

04.

```
8 | 0 references
9 | internal class Program
10 | {
11 |     0 references
12 |     static void Main(string[] args)
13 |     {
14 |         Console.WriteLine("Enter the first number: ");
15 |         int num1 = int.Parse(Console.ReadLine());
16 |
17 |         Console.WriteLine("Enter the second number: ");
18 |         int num2 = int.Parse(Console.ReadLine());
19 |
20 |         int largernum;
21 |
22 |         if (num1 > num2)
23 |         {
24 |             largernum = num1;
25 |         }
26 |         else
27 |         {
28 |             largernum = num2;
29 |         }
30 |         Console.WriteLine($"The larger number is: {largernum} ");
31 |     }
32 | }
33 | }
```

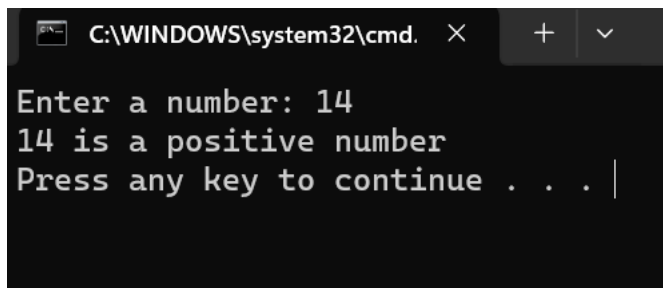
OUTPUT

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

05.

```
7 namespace ConsoleApp16
8 {
9     0 references
10    internal class Program
11    {
12        0 references
13        static void Main(string[] args)
14        {
15            Console.Write("Enter a number: ");
16            int number = int.Parse(Console.ReadLine());
17
18            if (number > 0)
19            {
20                Console.WriteLine($"{number} is a positive number");
21            }
22            else if (number < 0)
23            {
24                Console.WriteLine($"{number} is a negative number");
25            }
26            else
27            {
28                Console.WriteLine($"{number} is zero");
29            }
30        }
31    }
```

OUTPUT



C:\WINDOWS\system32\cmd. X + v

```
Enter a number: 14
14 is a positive number
Press any key to continue . . . |
```

06.

```
0 references
11 static void Main(string[] args)
12 {
13     Console.Write("Input the 1st number: ");
14     int num1 = Convert.ToInt32(Console.ReadLine());
15
16     Console.Write("Input the 2nd number: ");
17     int num2 = Convert.ToInt32(Console.ReadLine());
18
19     Console.Write("Input the 3rd number: ");
20     int num3 = Convert.ToInt32(Console.ReadLine());
21
22     int largestNumber = num1;
23
24     if (num2 > largestNumber)
25     {
26         largestNumber = num2;
27     }
28
29     if (num3 > largestNumber)
30     {
31         largestNumber = num3;
32     }
33     Console.WriteLine("The 2nd Number is the greatest among three");
34
35 }
36
37
```

OUTPUT

```
C:\WINDOWS\system32\cmd. x + v
Input the 1st number: 25
Input the 2nd number: 63
Input the 3rd number: 10
The 2nd Number is the greatest among three
Press any key to continue . . . |
```

07.

```
11 0 references
12 static void Main(string[] args)
13 {
14     Console.WriteLine("Input the marks obtained in Physics: ");
15     int physicsMarks = int.Parse(Console.ReadLine());
16
17     Console.WriteLine("Input the marks obtained in Chemistry: ");
18     int chemistryMarks = int.Parse(Console.ReadLine());
19
20     Console.WriteLine("Input the marks obtained in Mathematics: ");
21     int mathMarks = int.Parse(Console.ReadLine());
22
23     int totalMarks = physicsMarks + chemistryMarks + mathMarks;
24
25     if (mathMarks >= 65 && physicsMarks >= 55 && chemistryMarks >= 50 && totalMarks >= 180)
26     {
27         Console.WriteLine("The candidate is eligible for admission");
28     }
29     else if (totalMarks >= 140)
30     {
31         Console.WriteLine("The candidate is eligible for admission");
32     }
33     else
34     {
35         Console.WriteLine("The candidate is not eligible for admission");
36     }
37 }
```

OUTPUT

```
C:\WINDOWS\system32\cmd. X + v
Input the marks obtained in Physics: 65
Input the marks obtained in Chemistry: 51
Input the marks obtained in Mathematics: 72
The candidate is eligible for admission
Press any key to continue . . . |
```