1. Write a C# program to findout greatest among 2 numbers.

```
using System;
class program
{
   static void Main(String[] args)
   {
     Console.WriteLine("Enter 1st number:");
     int a = Convert.ToInt32(Console.ReadLine());
     Console.WriteLine("Enter 2nd number:");
     int b = Convert.ToInt32(Console.ReadLine());
     if(a>b)
     {
       Console.WriteLine(a+" is largest number.");
     }
     else
     {
       Console.WriteLine(b+" is largest number.");
     }
   }
}
```

Output:-

```
Enter 1st number: 9
Enter 2nd number: 7
9 is largest number.
```

2. Write a C# program to findout greatest among 3 numbers.

```
using System;
class program
{
  static void Main(String[] args)
  {
    Console.WriteLine("Enter 1st number:");
    int a = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter 2nd number:");
    int b = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter 3rd number:");
    int c = Convert.ToInt32(Console.ReadLine());
    if (a>b && a>c)
    {
      Console.WriteLine(a+" is largest number");
    }
    else if (b>c && b>a)
    {
      Console.WriteLine(b+" is largest number");
    }
    else
    {
      Console.WriteLine(c+" is largest number");
    }
  }
}
```

Output:-

```
Enter 1st number: 7
Enter 2nd number: 10
Enter 3rd number: 2
10 is largest number.
```

3. Write a program to check a number is even or odd.

```
using System;
class program
{
  static void Main(String[] args)
  {
   Console.WriteLine("Enter a number:");
   int n = Convert.ToInt32(Console.ReadLine());
   if(n%2==0)
   {
     Console.WriteLine("The number "+n+" is even.");
   }
   else
   {
     Console.WriteLine("The number "+n+" is odd.");
   }
  }
}
```

Output:-

Enter a number: 8

The number 8 is even.

4. Write a C# program to findout division of a student based on average mark of semester. If avg >= 60, 1st division, avg >= 50, 2nd division, avg >= 30, 3nd division, otherwise fail.

```
using System;
class program
{
  Static void Main(String[] args)
  {
    Console.WriteLine("Enter average marks of student:");
    int avg = Convert.ToInt32(Console.ReadLine());
    if (avg >= 60)
    {
      Console.WriteLine("1st division");
    }
    else if (avg >= 50)
    {
      Console.WriteLine("2nd division");
    }
    else if (avg >= 30)
    {
      Console.WriteLine("3nd division");
    }
    else
    {
      Console.WriteLine("Fail");
    }
  }
}
```

5. Using if else ladder findout quadrant of any co-ordinate point.

```
using System;
class program
{
  static void Main (String[] args)
  {
   Console.WriteLine("Enter value of x: ");
   int x = Convert.ToInt32(Console.ReadLine());
   Console.WriteLine("Enter value of y: ");
   int y= Convert.ToInt32(Console.ReadLine());
   if (x>0 && y<0)
   {
    Console.WriteLine("This co-ordinate lies in 1st quadrant.");
   }
   else if (x>0 && y<0)
   {
    Console.WriteLine("This co-ordinate lies in 2nd quadrant.");
   }
   else if (x<0 && y<0)
   {
    Console.WriteLine("This co-ordinate lies in 3rd quadrant.");
   }
   else
   {
    Console.WriteLine("This co-ordinate lies in 4th quadrant.");
   }
  }
}
```

Output:-

```
Enter value of x: 1
Enter value of y: 1
This co-ordinate lies in 1st quadrant.
```

6. Write a C# program to check whether an alphabet is vowel or not using switch case.

```
using System;
class program
{
  static void Main(String[] args)
  {
   Console.WriteLine("Enter an alphabet:");
   char alp = Convert.ToChar(Console.ReadLine());
   switch(alp)
   {
    case 'a':
    case 'A':
    case 'e':
    case 'E':
    case 'i':
    case 'I':
    case 'o':
    case 'O':
    case 'u':
    case 'U':
    Console.WriteLine(alp+" is vowel.");
    break;
    default: Console.WriteLine(alp+" is consonant");
    break;
   }
  }
}
```

Output:-

Enter an alphabet: A

A is vowel.

7. Using switch case write a c# program to perform +, −, *, / between two integers.

```
using System;
class program
{
  static void Main(String[] args)
  {
    Console.WriteLine("Enter 1st number:");
    int a=Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter 2nd number:");
    int b= Convert.ToInt32(Console.Readline());
    Console.WriteLine("Enter 1 to perform addition.");
    Console.WriteLine("Enter 2 to perform substraction.");
    Console.Writeline("Enter 3 to perform multiplication.");
    Console.WriteLine("Enter 4 to perform division.");
    int n=Convert.ToInt32(Console.ReadLine());
   switch(n)
   {
    case 1:
    int sum=a+b;
    Console.WriteLine("the addition of entered numbers is"+sum);
    break;
    case2:
    int sub=a-b;
    Console.Writeline("The substraction of entered number is"+
          sub);
    break;
    case 3:
    int mul=a*b;
    Console.WriteLine("The multiplication of entered number is"+
         mul);
    break;
    case 4:
    int div = a/b;
    Console.Writeline("The division of entered number is"+
          div);
    break;
```

```
            default:
            Console.WriteLine(" You have entered invalid input ");
            break;
        }
    }
}
```

Output:-

```
Enter 1st number: 2
Enter 2nd number: 2
Enter 1 to perform addition.
Enter 2 to perform substraction.
Enter 3 to perform multiplication.
Enter 4 to perform division.
1
The addition of entered number is 4.
```