20 C Programming Codes

Converted to C# Code

By Manoj Karnatapu - NB Technologies

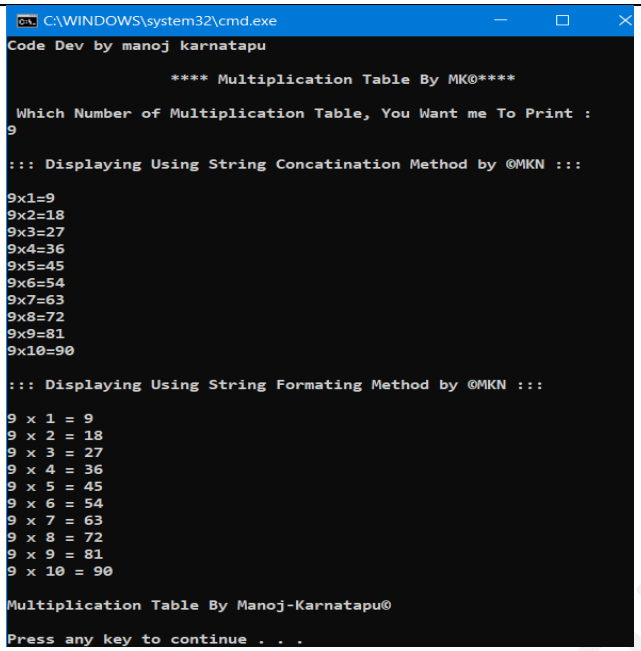
Project 1

Write a C# Code to Print Multiplication Table for a given number

Code

```
using System;

// Multiplication Tabel By ©Manoj-Karnatapu(aka MK/MKN)

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input, i;
         Console.WriteLine("\nCode Dev by manoj karnatapu\n\n\t\t **** Multiplication Table By MK©**** \n\n Which Number of Multiplication
Table, You Want me To Print : ");

         //Reading Inputs Section
         input = Convert.ToInt32(Console.ReadLine());

         //Program Logic Section
         Console.WriteLine("\n::: Displaying Using String Concatination Method by ©MKN :::\n");
         for (i = 1; i <= 10; i++)
         {
            //Printing Output using String Concatination
            Console.WriteLine(input + "x" + i + "=" + input * i);
         }

         Console.WriteLine("\n::: Displaying Using String Formating Method by ©MKN :::\n");
         for (i = 1; i <= 10; i++)
         {
            //Printing OutPut using String Formating
            Console.WriteLine("{0} x {1} = {2}", input, i, input * i);
         }

         Console.WriteLine("\nMultiplication Table By Manoj-Karnatapu©");

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

Output



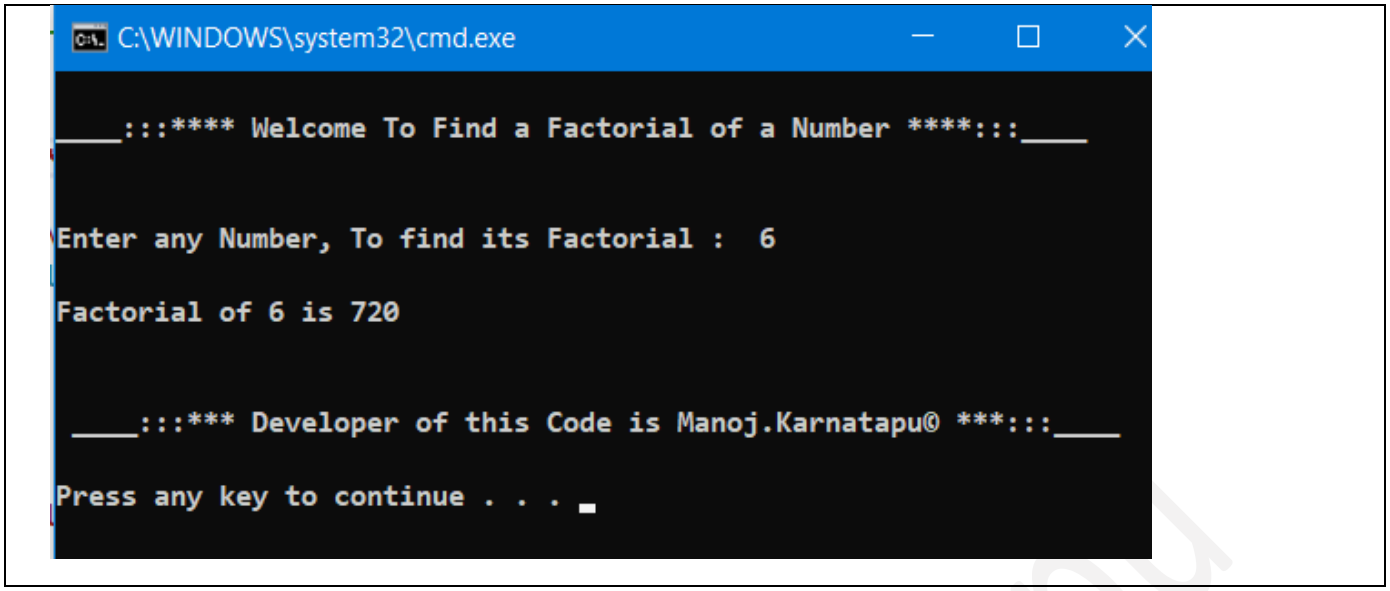
Project 2

Write a C# Code to Print Factorial of a given number

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and print its factorial

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input, i, fact = 1;

         Console.WriteLine("\n___:::**** Welcome To Find a Factorial of a Number ****:::___");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find its Factorial :  ");
         input = Convert.ToInt32(Console.ReadLine());

         //Program Logic Section
         for (i = 1; i <= input; i++)
            fact = fact * i;

         Console.WriteLine("\nFactorial of {0} is {1}",input, fact);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output



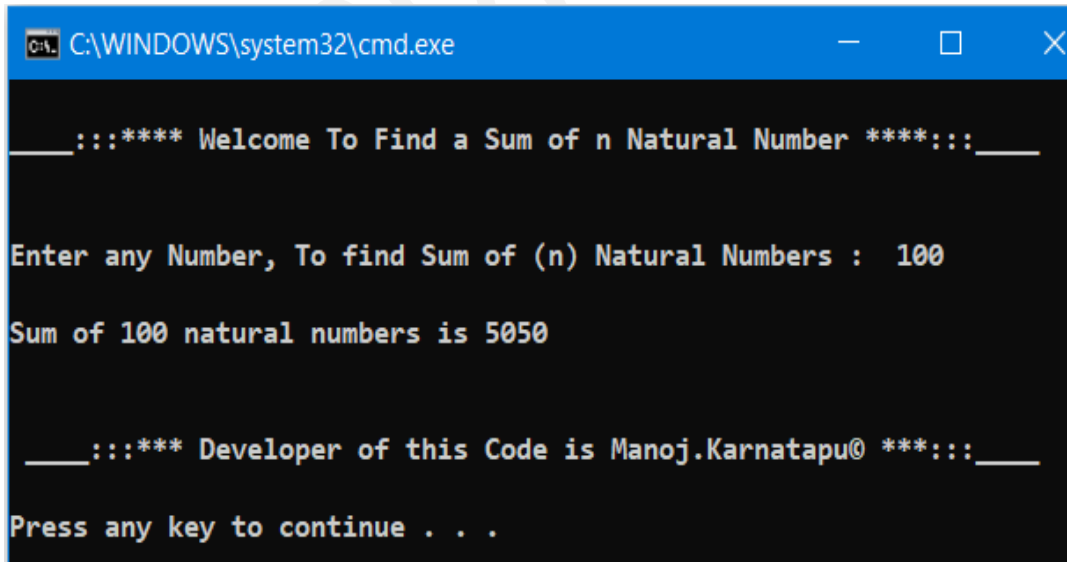
Project 3

Write a C# Code to Print Sum of N Natural Numbers

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and print sum of n natural numbers upto n.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input, i, sum = 0;

         Console.WriteLine("\n____:::**** Welcome To Find a Sum of n Natural Number ****:::____");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find Sum of (n) Natural Numbers :  ");
         input = Convert.ToInt32(Console.ReadLine());

         //Program Logic Section
         for (i = 1; i <= input; i++)
            sum = sum + i;

         Console.WriteLine("\nSum of {0} natural numbers is {1}",input, sum);

         Console.WriteLine("\n\n ____:::*** Developer of this Code is Manoj.Karnatapu© ***:::____");
         Console.ReadLine();
      }
   }
}
```

Output



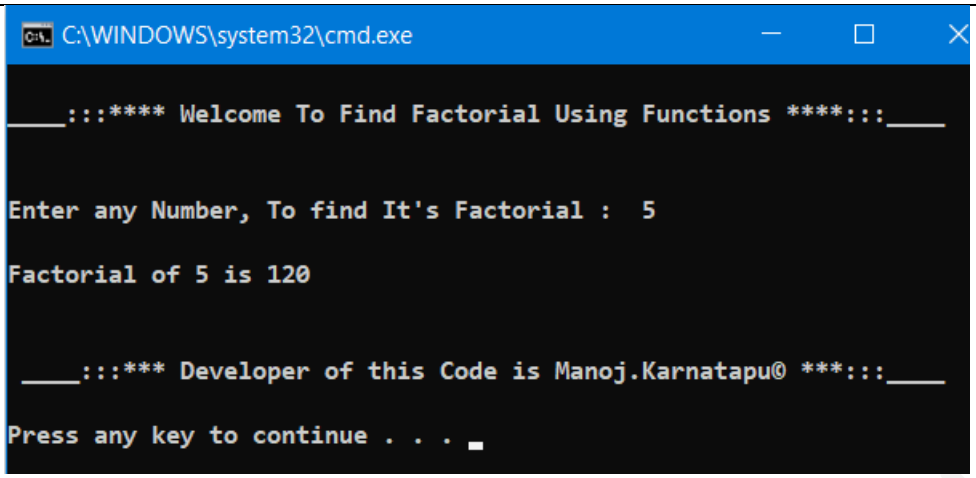
Project 4

Write a C# Code to Print Factorial using Functions

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and print its Factorial Using Functions.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      public static void PrintOutput(int n)
      {
         Console.WriteLine("\nFactorial of {0} is {1}", n, Factorial(n));
      }
      public static int Factorial(int input)
      {
         int fact = 1, i;
         for (i = 1; i <= input; i++)
            fact = fact * i;
         return fact;
      }
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input;

         Console.WriteLine("\n___:::**** Welcome To Find Factorial Using Functions ****:::___");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find It's Factorial :  ");
         input = Convert.ToInt32(Console.ReadLine());

         //Program Logic Section

         PrintOutput(input);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output



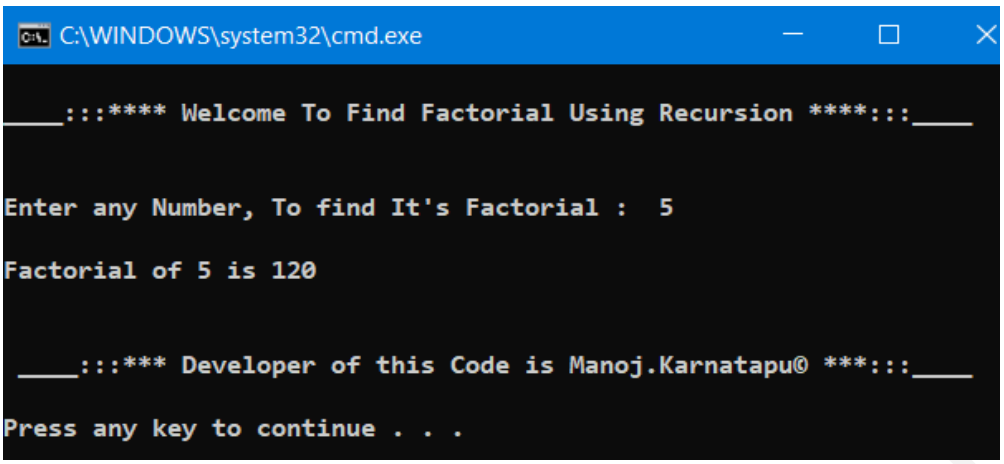
Project 5

Write a C# Code to Print Factorial using Recursion

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and print its Factorial Using Recursion.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      public static void PrintOutput(int n)
      {
         Console.WriteLine("\nFactorial of {0} is {1}", n, Factorial(n));
      }
      public static int Factorial(int input)
      {
         if (input == 0)
            return 1;
         else
            return input * Factorial(input - 1);
      }
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input;

         Console.WriteLine("\n____:::**** Welcome To Find Factorial Using Recursion ****:::____");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find It's Factorial :  ");
         input = Convert.ToInt32(Console.ReadLine());

         //Program Logic Section

         PrintOutput(input);

         Console.WriteLine("\n\n ____:::*** Developer of this Code is Manoj.Karnatapu© ***:::____");
         Console.ReadLine();
      }
   }
}
```

Output



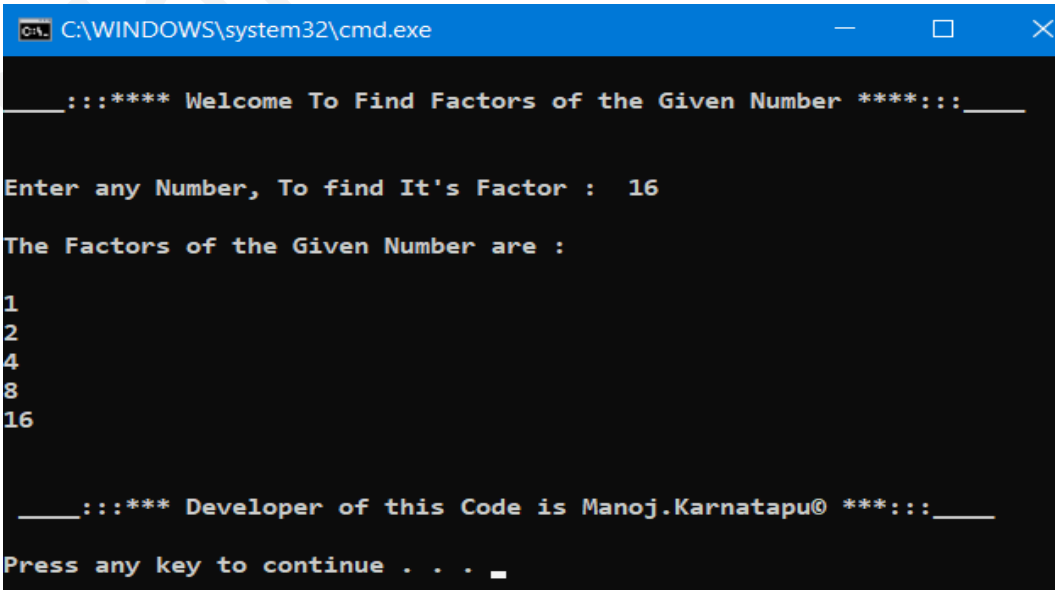
Project 6

Write a C# Code to Print Factors of a given number

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number from user and print factors of a given number.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input, i;

         Console.WriteLine("\n___:::**** Welcome To Find Factors of the Given Number ****:::___");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find It's Factor :  ");
         input = Convert.ToInt32(Console.ReadLine());


         Console.WriteLine("\nThe Factors of the Given Number are :\n");
         //Program Logic Section
         for (i = 1; i <= input; i++)
         {
            if (input % i == 0)
               Console.WriteLine(i);
         }

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output



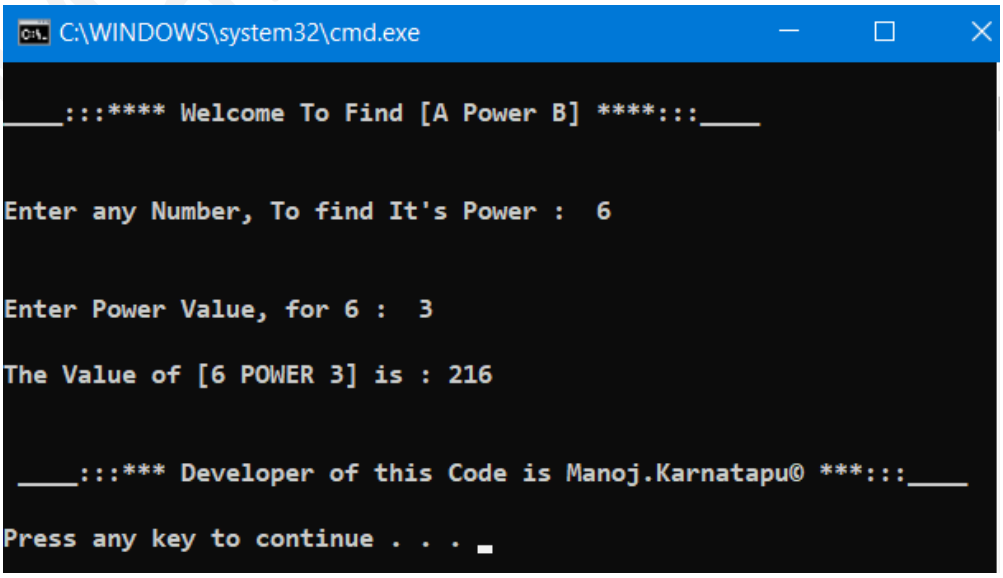
Project 7

Write a C# Code to Print POWER of a given number [a power b]

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a , b values and print [a power b] value.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int a, b, result = 1, i;

         Console.WriteLine("\n___:::**** Welcome To Find [A Power B] ****:::___");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find It's Power :  ");
         a = Convert.ToInt32(Console.ReadLine());
         Console.Write("\n\nEnter Power Value, for {0} :  ", a);
         b = Convert.ToInt32(Console.ReadLine());



         //Program Logic Section
         for (i = 1; i <= b; i++)
            result = result * a;

         Console.WriteLine("\nThe Value of [{0} POWER {1}] is : {2}", a, b, result);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output



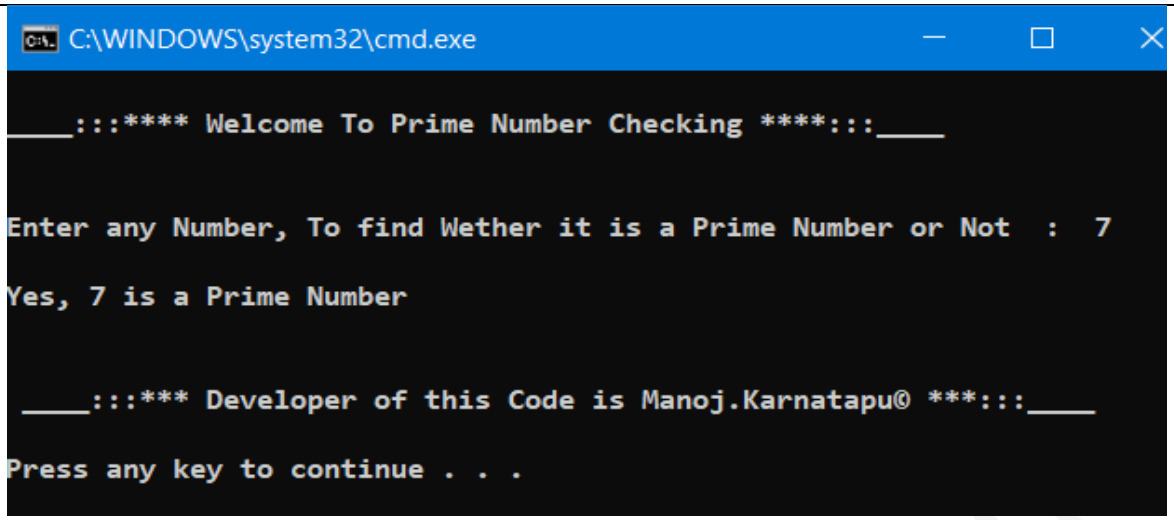
Project 8

Write a C# Code to Print Given number is Prime Number or Not

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and check, if it is a Prime Number or Not

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input, i;

         Console.WriteLine("\n___:::**** Welcome To Prime Number Checking ****:::___");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find Wether it is a Prime Number or Not  :  ");
         input = Convert.ToInt32(Console.ReadLine());



         //Program Logic Section
         for (i = 2; i < input; i++)
         {
            if (input % i == 0)
               break;
         }

         //Printing Output Section
         if (i == input)
            Console.WriteLine("\nYes, {0} is a Prime Number", input);
         else
            Console.WriteLine("\nNo, {0} is Not a Prime Number", input);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output

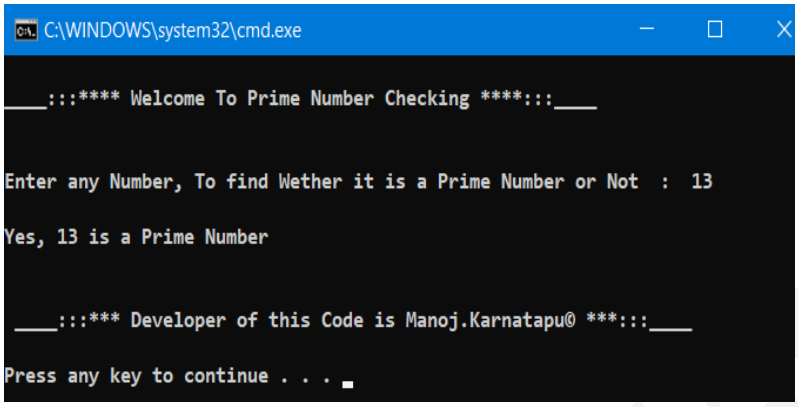


Project 9
Write a C# Code to Check given Number is Prime Number Using Functions
Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number and check, if it is a Prime Number or Not using Functions

namespace CtoCSharpPrograms
{
   internal class Program
   {
      public static bool IsPrimeNumber(int input)
      {
         int i;
         for (i = 2; i < input; i++)
         {
            if (input % i == 0)
               break;
         }

         if (i == input)
            return true;
         else
            return false;
      }
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int input;

         Console.WriteLine("\n____:::**** Welcome To Prime Number Checking ****:::____");
         //Reading Inputs Section
         Console.Write("\n\nEnter any Number, To find Wether it is a Prime Number or Not :  ");
         input = Convert.ToInt32(Console.ReadLine());

         //Calling Function & Printing Output Section
         if (IsPrimeNumber(input))
            Console.WriteLine("\nYes, {0} is a Prime Number", input);
         else
            Console.WriteLine("\nNo, {0} is Not a Prime Number", input);
```

```
        Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
        Console.ReadLine();
    }
  }
}
```

Output



Project 10

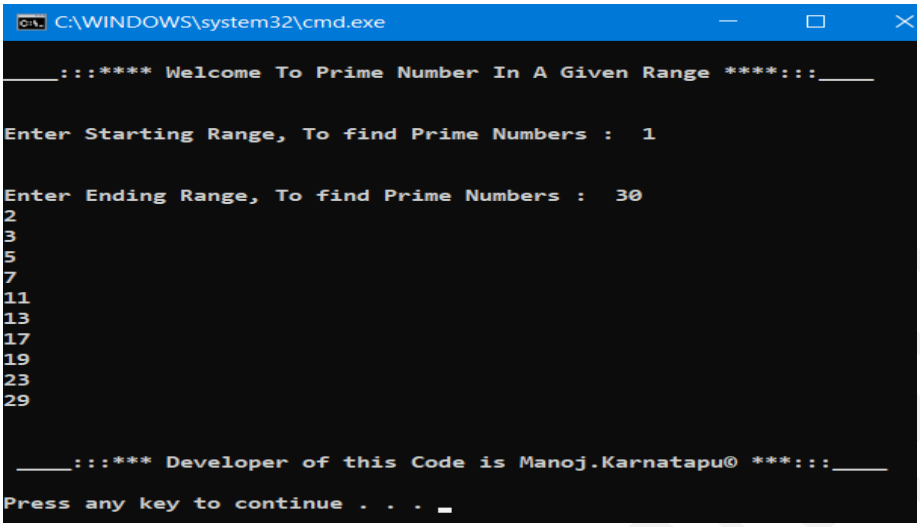
Write a C# Code to Print Prime Numbers in Given Range

Code

```
using System;
// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: Prime Numbers in a given range.
namespace CtoCSharpPrograms
{
  internal class Program
  {
    public static bool IsPrimeNumber(int input)
    {
      int i;
      for (i = 2; i < input; i++)
      {
        if (input % i == 0)
          break;
      }
      if (i == input)
        return true;
      else
        return false;
    }
    static void Main(string[] args)
    {
      //Variable Declaration Section
      int a, b, i;
      Console.WriteLine("\n___:::**** Welcome To Prime Number In A Given Range ****:::___");
      //Reading Inputs Section
      Console.Write("\n\nEnter Starting Range, To find Prime Numbers :  ");
      a = Convert.ToInt32(Console.ReadLine());
      Console.Write("\n\nEnter Ending Range, To find Prime Numbers :  ");
      b = Convert.ToInt32(Console.ReadLine());

      for (i =a; i <=b; i++)
      {
        if (IsPrimeNumber(i))
          Console.WriteLine(i);
      }
```

```
        Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
        Console.ReadLine();
    }
  }
}
```

Output



Project 11

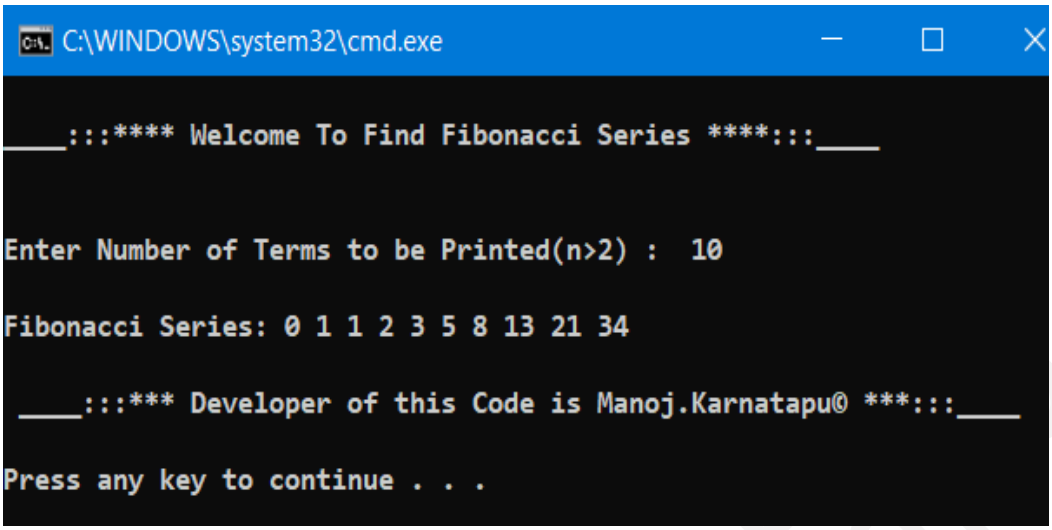
Write a C# Code to Print Fibonacci Series

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a Number (n) & Print n Fibonacci Sequence.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int n, i,a = 0, b = 1, c;

         Console.WriteLine("\n___:::**** Welcome To Find Fibonacci Series ****:::___");

         //Reading Inputs Section
         Console.Write("\n\nEnter Number of Terms to be Printed(n>2) :  ");
         n = Convert.ToInt32(Console.ReadLine());

         Console.Write("\nFibonacci Series: 0 1");
         for (i = 1; i <= n-2; i++)
         {
            c = a + b;
            a = b;
            b = c;
            Console.Write(" {0}",c);
         }

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
```

```
    }
  }
}
```

Output



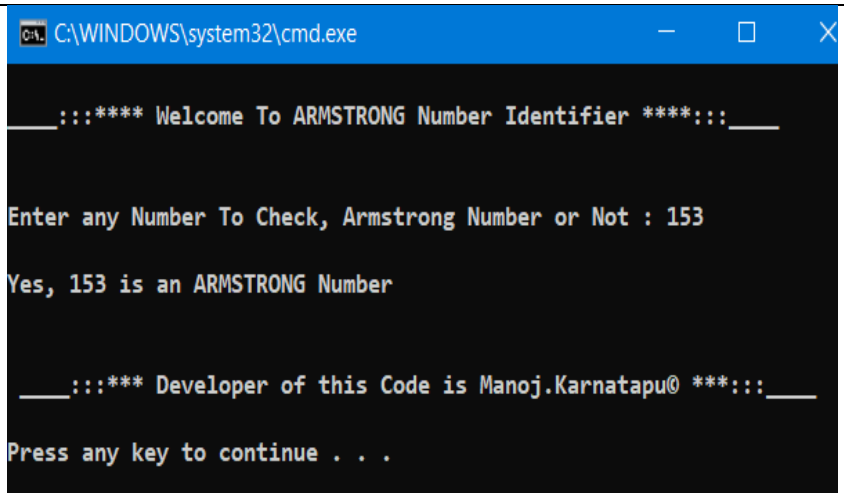
Project 12

Write a C# Code to Check given number is Armstrong Number

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a Number and Check if it is an ARMSTRONG Number or Not.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int n, rem, m, result = 0;

         Console.WriteLine("\n___:::**** Welcome To ARMSTRONG Number Identifier ****:::___");

         //Reading Inputs Section
         Console.Write("\n\nEnter any Number To Check, Armstrong Number or Not : ");
         n = Convert.ToInt32(Console.ReadLine());

         //Logic Section
         m = n;
         while (m > 0)
         {
            rem = m % 10;
            m = m / 10;
            result = result + rem * rem * rem;
         }

         //Printing Output Section
         if (result == n)
            Console.WriteLine("\nYes, {0} is an ARMSTRONG Number", n);
         else
            Console.WriteLine("\nNo, {0} is Not an ARMSTRONG Number", n);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output

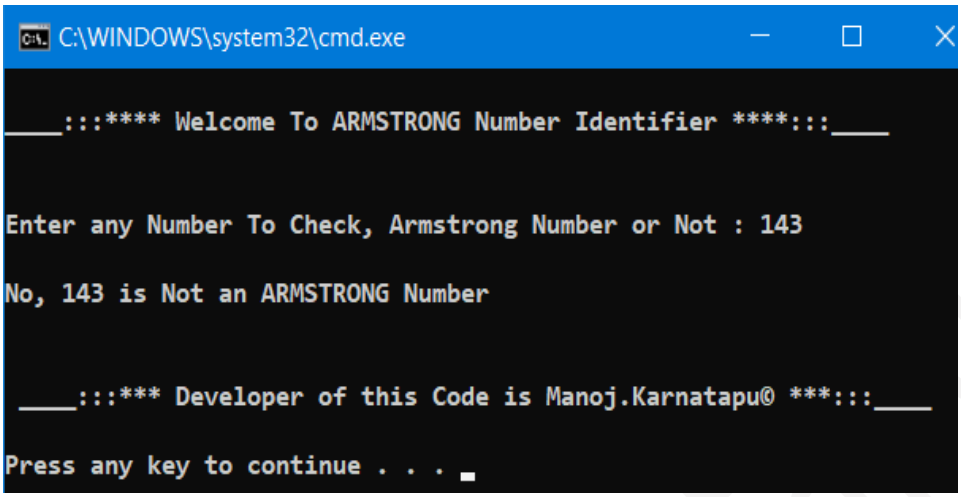


Project 13
Write a C# Code to Check given number is Armstrong Number Using Functions
Code

```
using System;
// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a Number and Check if it is an ARMSTRONG Number or Not Using Function.
namespace CtoCSharpPrograms
{
   internal class Program
   {
      public static bool IsArmstrong(int n)
      {
         int m, result = 0, rem;
         m = n;
         while (m > 0)
         {
            rem = m % 10;
            m = m / 10;
            result = result + rem * rem * rem;
         }
         //Printing Output Section
         if (result == n)
            return true;
         else
            return false;
      }
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int n;
         Console.WriteLine("\n___:::**** Welcome To ARMSTRONG Number Identifier ****:::___");

         //Reading Inputs Section
         Console.Write("\n\nEnter any Number To Check, Armstrong Number or Not : ");
         n = Convert.ToInt32(Console.ReadLine());
         //Function Calling Section
         if (IsArmstrong(n))
            Console.WriteLine("\nYes, {0} is an ARMSTRONG Number", n);
         else
            Console.WriteLine("\nNo, {0} is Not an ARMSTRONG Number", n);
         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
```

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

Output



Project 14

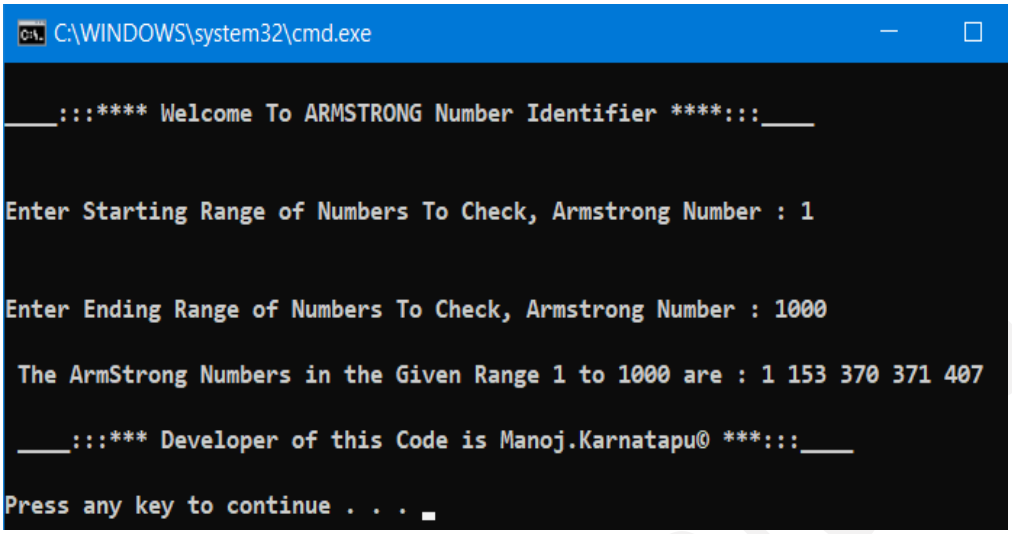
Write a C# Code to Print Armstrong Numbers in given range

Code

```
using System;
// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: ARMSTRONG Numbers in a given Range.
namespace CtoCSharpPrograms
{
    internal class Program
    {
        public static bool IsArmstrong(int n)
        {
            int m, result = 0, rem;
            m = n;
            while (m > 0)
            {
                rem = m % 10;
                m = m / 10;
                result = result + rem * rem * rem;
            }
            //Printing Output Section
            if (result == n)
                return true;
            else
                return false;
        }
        static void Main(string[] args)
        {
            //Variable Declaration Section
            int a, b, i;
            Console.WriteLine("\n____:::**** Welcome To ARMSTRONG Number Identifier ****:::____");

            //Reading Inputs Section
            Console.Write("\n\nEnter Starting Range of Numbers To Check, Armstrong Number : ");
            a = Convert.ToInt32(Console.ReadLine());
            Console.Write("\n\nEnter Ending Range of Numbers To Check, Armstrong Number : ");
            b = Convert.ToInt32(Console.ReadLine());

            Console.Write("\n The ArmStrong Numbers in the Given Range {0} to {1} are :",a,b);
            for (i = a; i <= b; i++)
            {
                if (IsArmstrong(i))
                    Console.Write(" {0}",i);
            }
```

```
        Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu© ***:::___");
        Console.ReadLine();
    }
  }
}
```

Output



Project 15

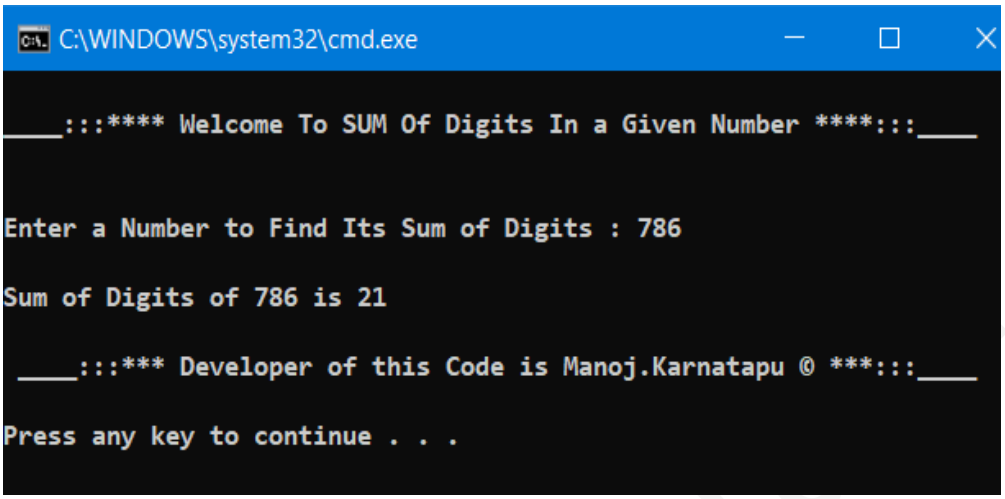
Write a C# Code to Print Sum of Digits in a given number

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number from user and Print Sum of Digits.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int n, m, rem, result = 0;

         Console.WriteLine("\n___:::**** Welcome To SUM Of Digits In a Given Number ****:::___");

         //Reading Inputs Section
         Console.Write("\n\nEnter a Number to Find Its Sum of Digits : ");
         n = Convert.ToInt32(Console.ReadLine());
         //Logic Section
         m = n;
         while (m > 0)
         {
            rem = m % 10;
            m = m / 10;
            result = result + rem;
         }

         Console.Write("\nSum of Digits of {0} is {1}",n, result);
```

```
            Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu © ***:::___");
            Console.ReadLine();
        }
    }
}
```

Output



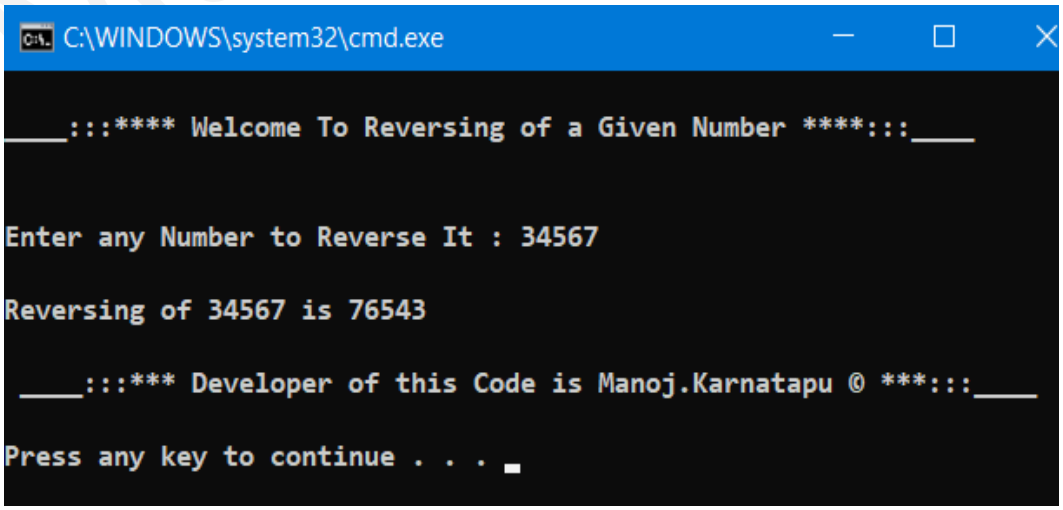
Project 16

Write a C# Code to Print Reverse of a Given Number

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read a number from user and Print Reversed format of it.

namespace CtoCSharpPrograms
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //Variable Declaration Section
            int n, rev = 0, rem, m;

            Console.WriteLine("\n___:::**** Welcome To Reversing of a Given Number ****:::___");

            //Reading Inputs Section
            Console.Write("\n\nEnter any Number to Reverse It : ");
            n = Convert.ToInt32(Console.ReadLine());
            //Logic Section
            m = n;
            while (m > 0)
            {
                rem = m % 10;
                m = m / 10;
                rev = rev * 10 + rem;
            }

            Console.Write("\nReversing of {0} is {1}",n , rev);

            Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu © ***:::___");
            Console.ReadLine();
        }
    }
}
```

Output



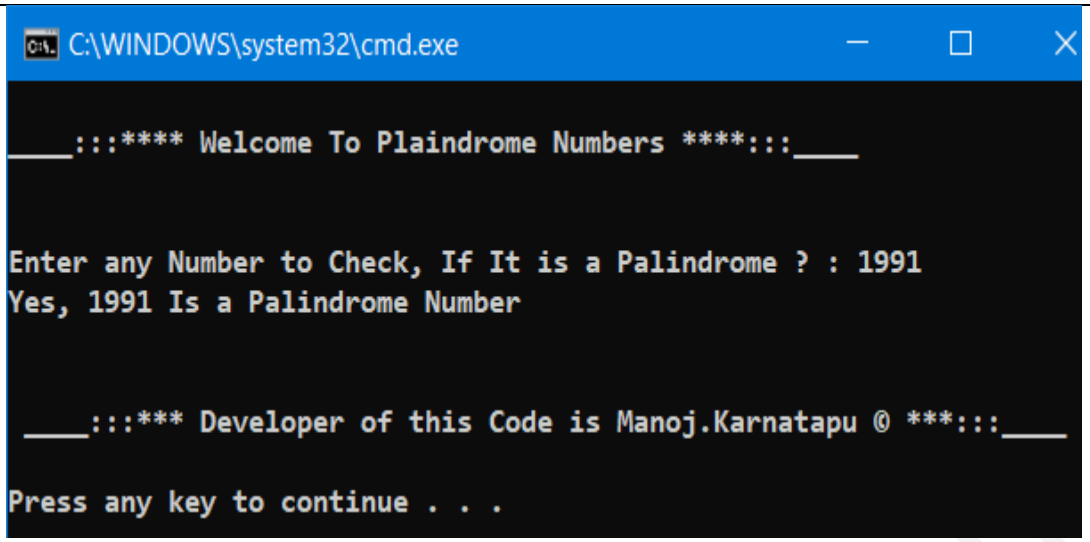
Project 17

Write a C# Code to Print given number is Palindrome Number or Not

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Read and Check If it is Palindrome Number or Not.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int n, rev = 0, rem, m;

         Console.WriteLine("\n___:::**** Welcome To Plaindrome Numbers ****:::___");

         //Reading Inputs Section
         Console.Write("\n\nEnter any Number to Check, If It is a Palindrome ? : ");
         n = Convert.ToInt32(Console.ReadLine());
         //Logic Section
         m = n;
         while (m > 0)
         {
            rem = m % 10;
            m = m / 10;
            rev = rev * 10 + rem;
         }

         if (n == rev)
            Console.WriteLine("Yes, {0} Is a Palindrome Number", n);
         else
            Console.WriteLine("No,  {0} is Not a Palindrome Number", n);

         Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu © ***:::___");
         Console.ReadLine();
      }
   }
}
```

Output



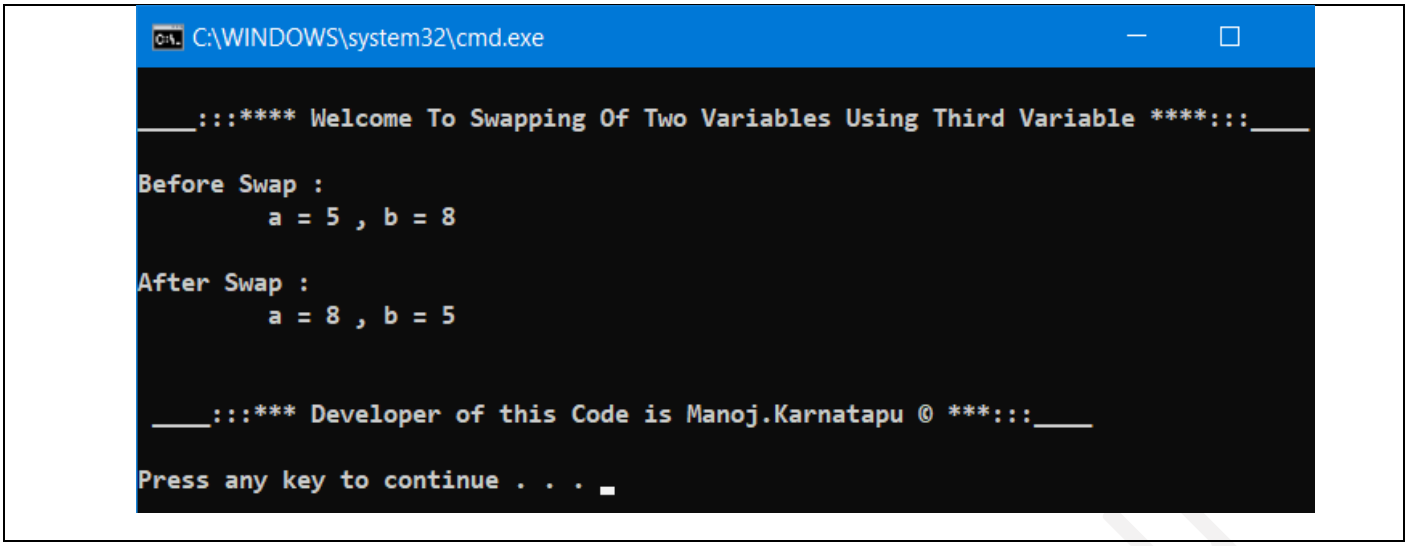
Project 18

Write a C# Code to Swap Numbers using Third Variable

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Swap data of Two Variables By Using Third Variable.

namespace CtoCSharpPrograms
{
   internal class Program
   {
      static void Main(string[] args)
      {
         //Variable Declaration Section
         int a = 5, b = 8, t;

         Console.WriteLine("\n____:::**** Welcome To Swapping Of Two Variables Using Third Variable ****:::____");

         Console.WriteLine("\nBefore Swap : ");
         Console.WriteLine("\t a = {0} , b = {1}",a ,b);

         //Logic Section
         t = a;
         a = b;
         b = t;

         //Printing Output Section
         Console.WriteLine("\nAfter Swap : ");
         Console.WriteLine("\t a = {0} , b = {1}", a, b);

         Console.WriteLine("\n\n ____:::*** Developer of this Code is Manoj.Karnatapu © ***:::____");
         Console.ReadLine();
      }
   }
}
```

Output



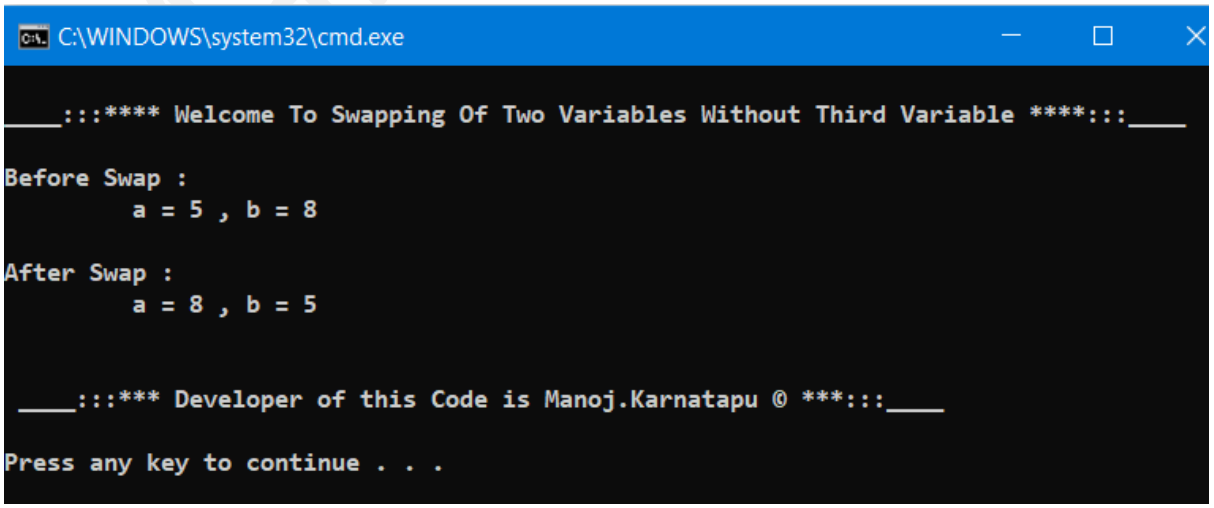
Project 19

Write a C# Code to Swap Numbers without using Third Variable

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Swap data of Two Variables Without Using Third Variable.

namespace CtoCSharpPrograms
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //Variable Declaration Section
            int a = 5, b = 8;

            Console.WriteLine("\n___:::**** Welcome To Swapping Of Two Variables Without Third Variable ****:::___");

            Console.WriteLine("\nBefore Swap : ");
            Console.WriteLine("\t a = {0} , b = {1}",a ,b);

            //Logic Section
            a = a + b;
            b = a - b;
            a = a - b;

            //Printing Output Section
            Console.WriteLine("\nAfter Swap : ");
            Console.WriteLine("\t a = {0} , b = {1}", a, b);

            Console.WriteLine("\n\n ___:::*** Developer of this Code is Manoj.Karnatapu © ***:::___");
            Console.ReadLine();
        }
    }
}
```

Output



Project 20

Write a C# Code to Print Stars(*) in a - Right Angled Triangle Pattern

Code

```
using System;

// Author: Manoj-Karnatapu© (aka MK/MKN)
// Purpose: To Print Stars (*) in a Right Angled Triangle.

namespace CtoCSharpPrograms
{
    internal class Program
    {
        static void Main(string[] args)
        {
            //Variable Declaration Section
            int n, i, j;

            Console.WriteLine("\n____:::**** Welcome To Printing Right Angle Triangle Using Stars ****:::____");

            Console.Write("\n Enter no. of rows to be Printed : ");
            n = Convert.ToInt32(Console.ReadLine());

            //Logic Section
            for (i = 1; i <= n; i++)
            {
                for (j = 1; j <= i; j++)
                {
                    Console.Write("* ");
                }
                Console.Write("\n");
            }

            Console.WriteLine("\n\n ____:::*** Developer of this Code is Manoj.Karnatapu © ***:::____");
            Console.ReadLine();
        }
    }
}
```

Output