20 C Programming Codes

Converted to C# Code

By Manoj Karnatapu - NB Technologies

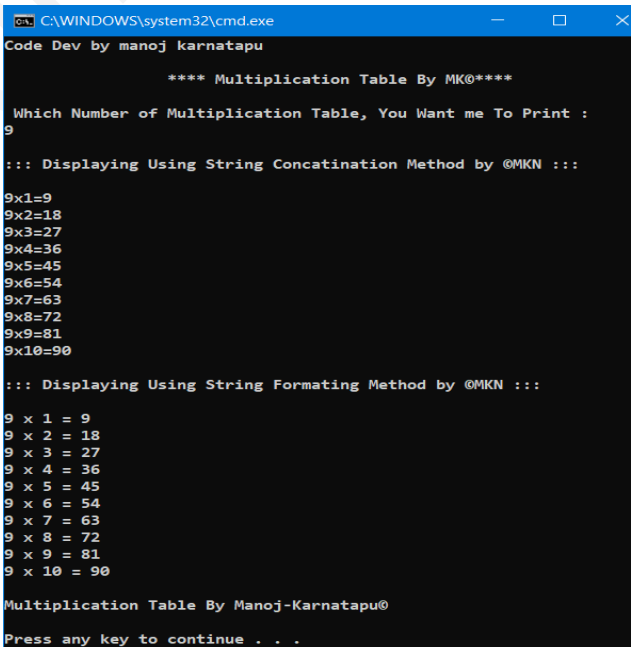
Project 1

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



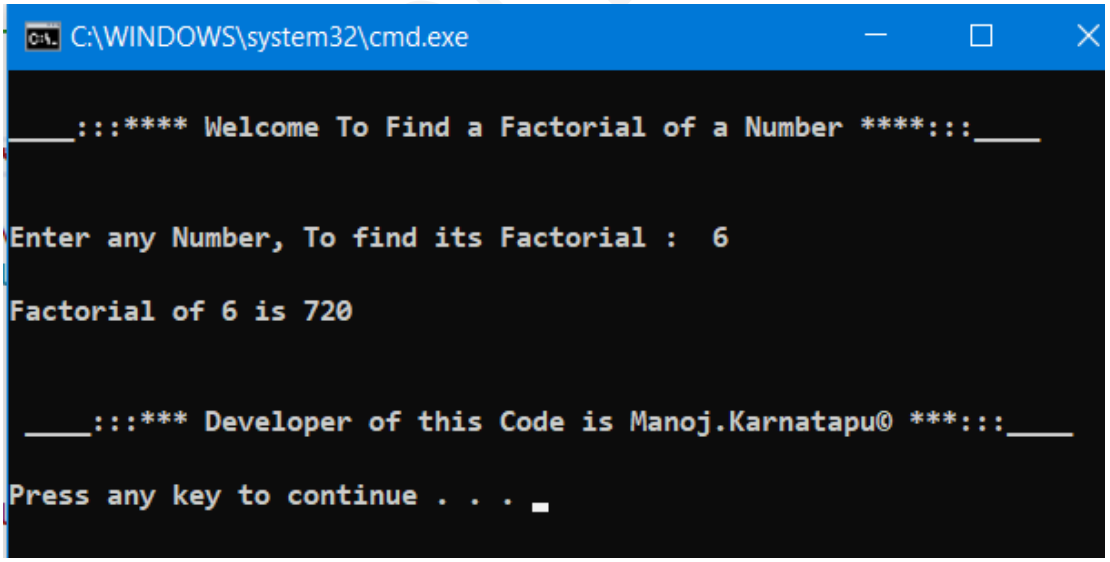
Project 2

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



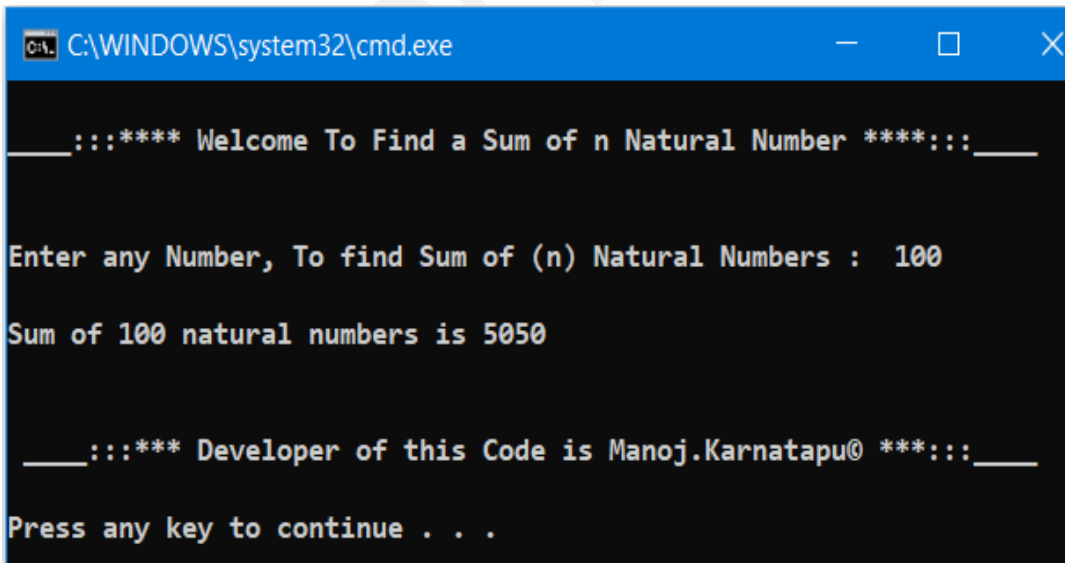
Project 3

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



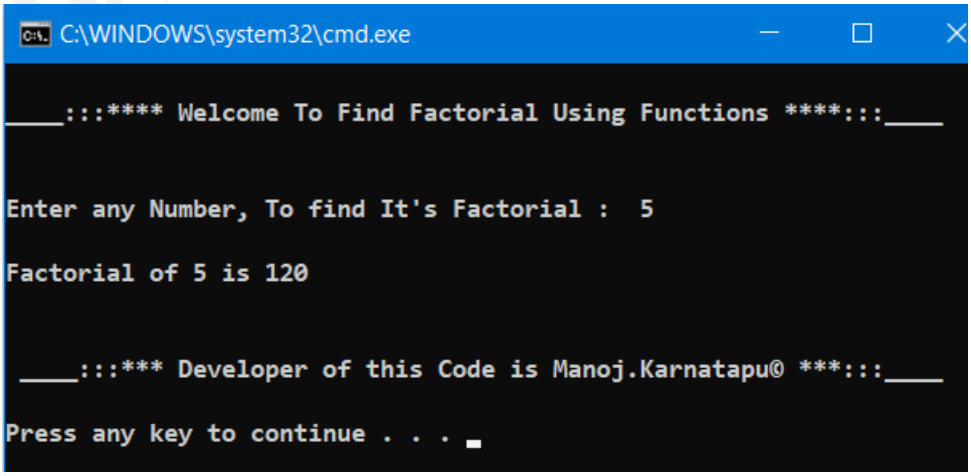
Project 4

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



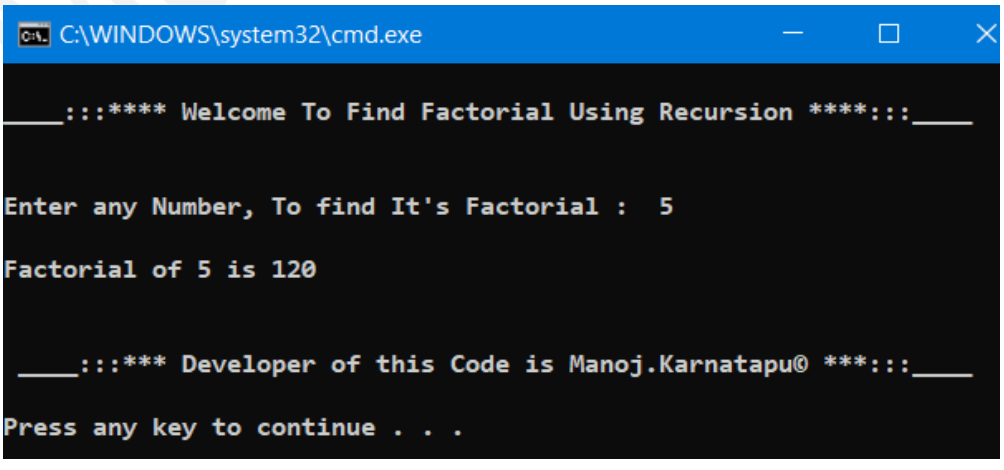
Project 5

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



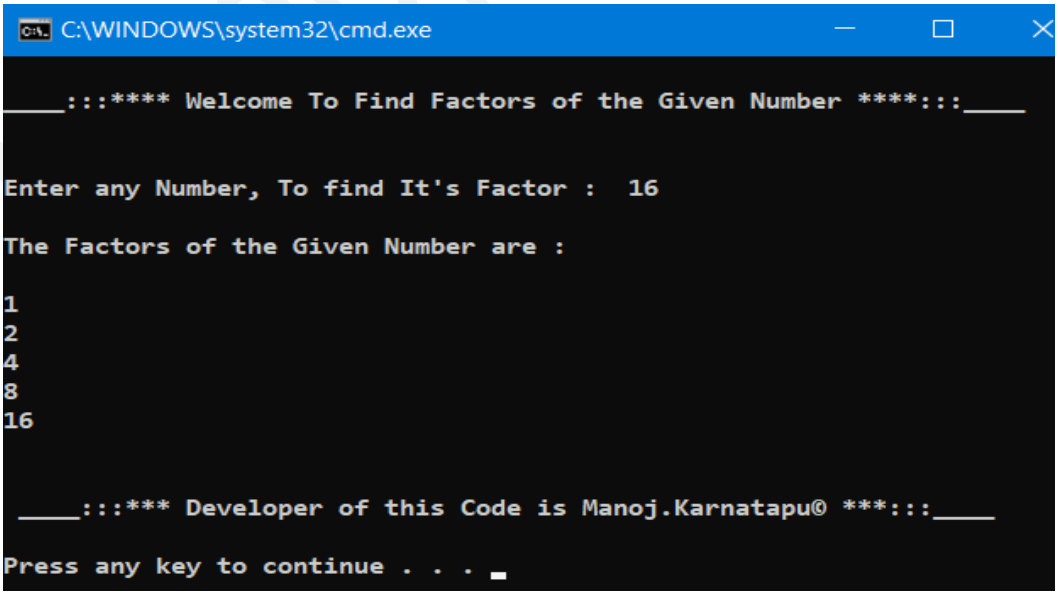
Project 6

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



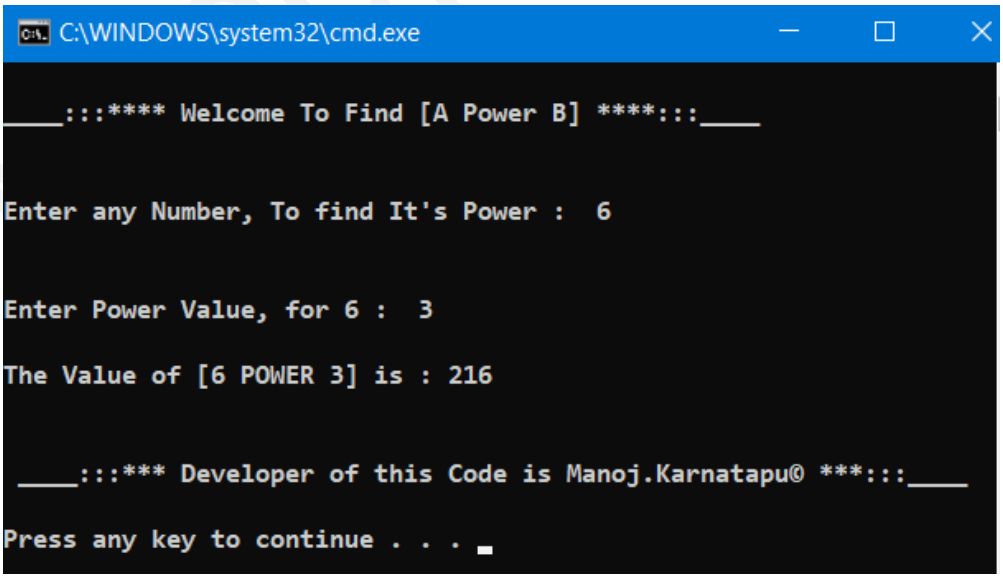
Project 7

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



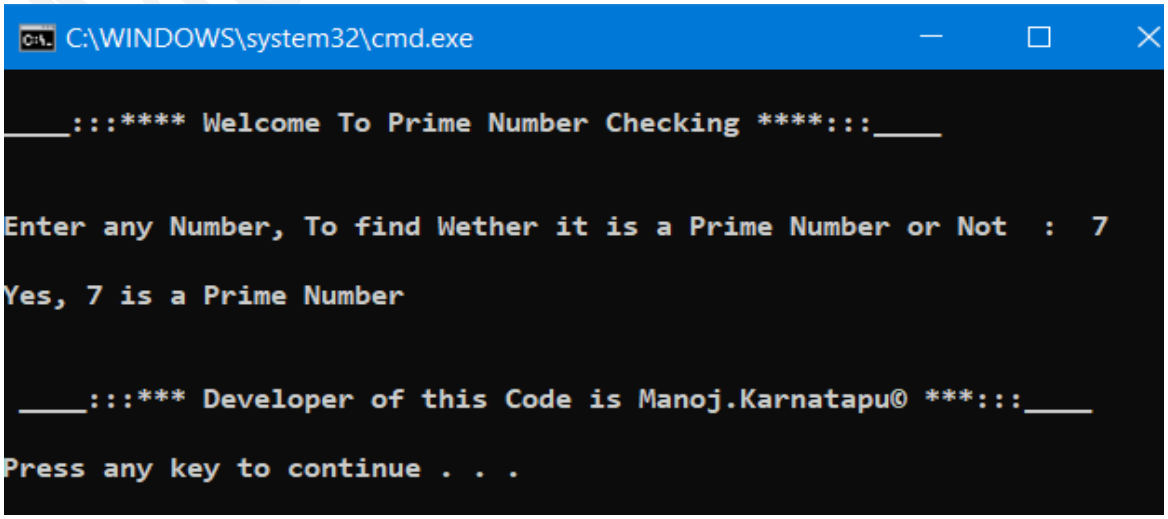
Project 8

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



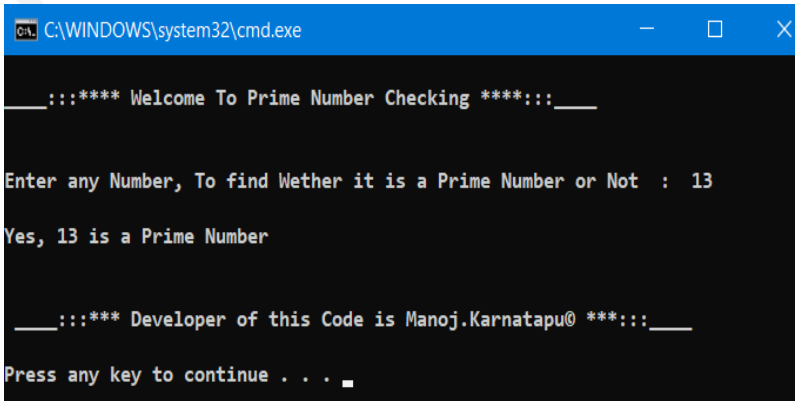
Project 9

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



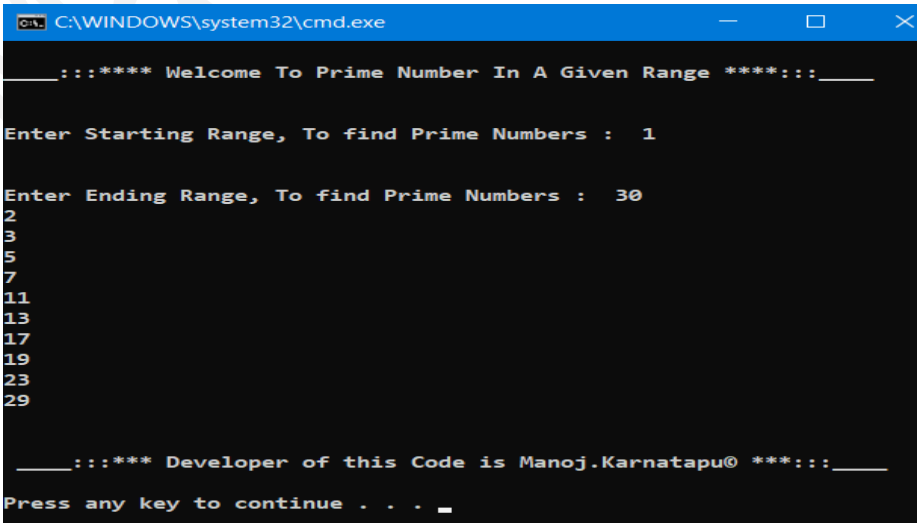
Project 10

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



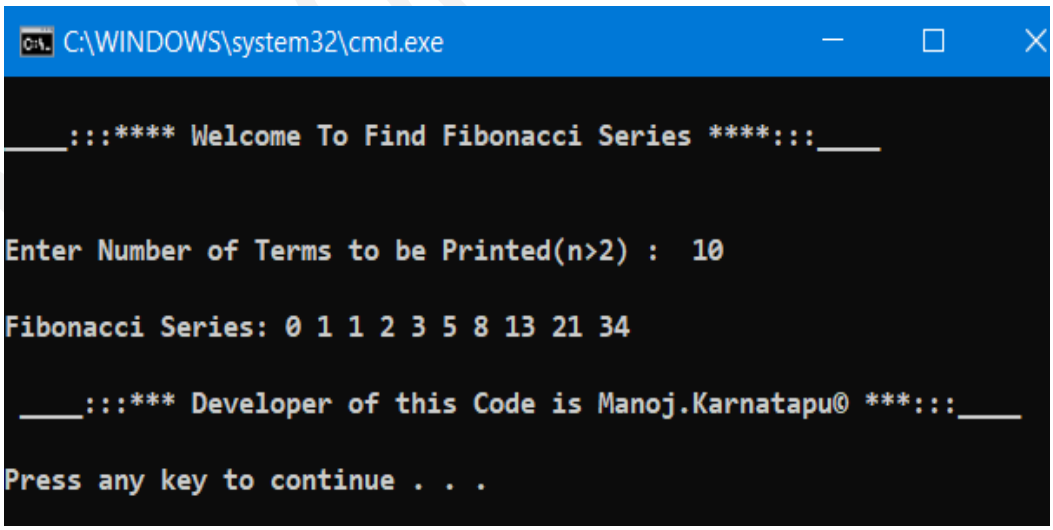
Project 11

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



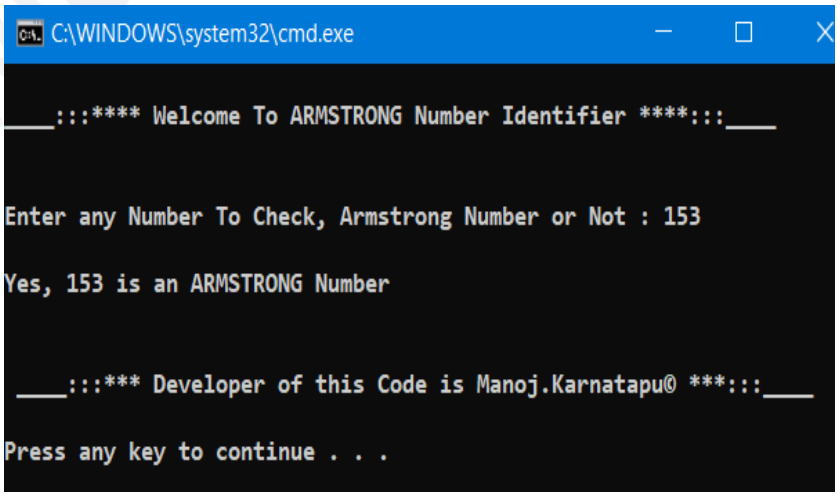
Project 12

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



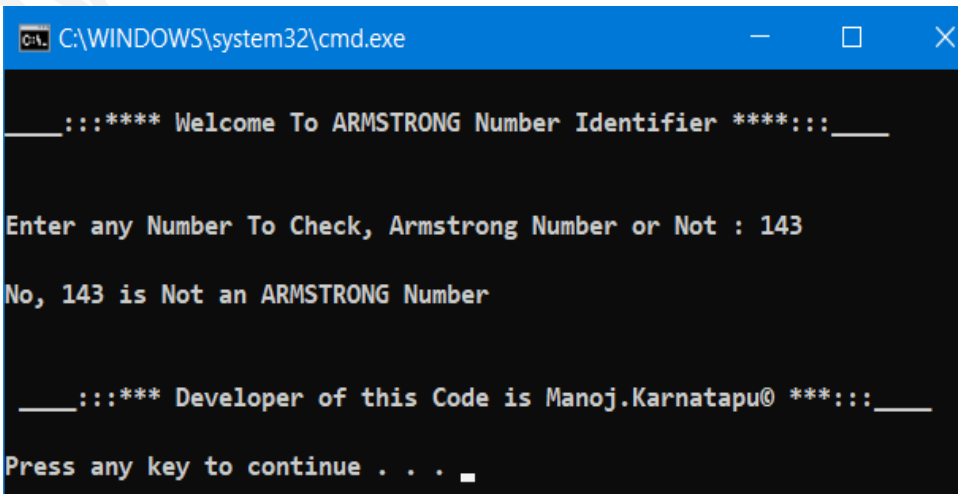
Project 13

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



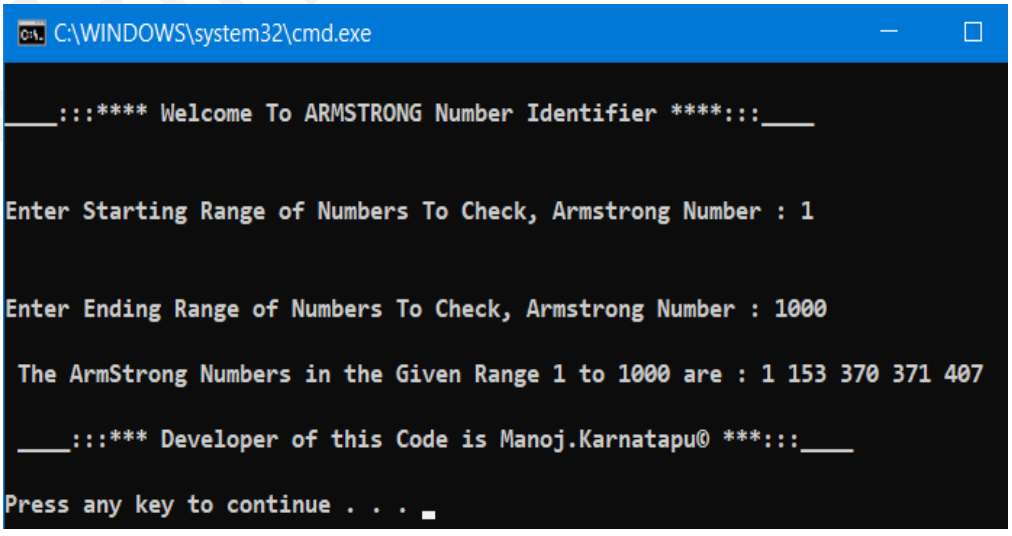
Project 14

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



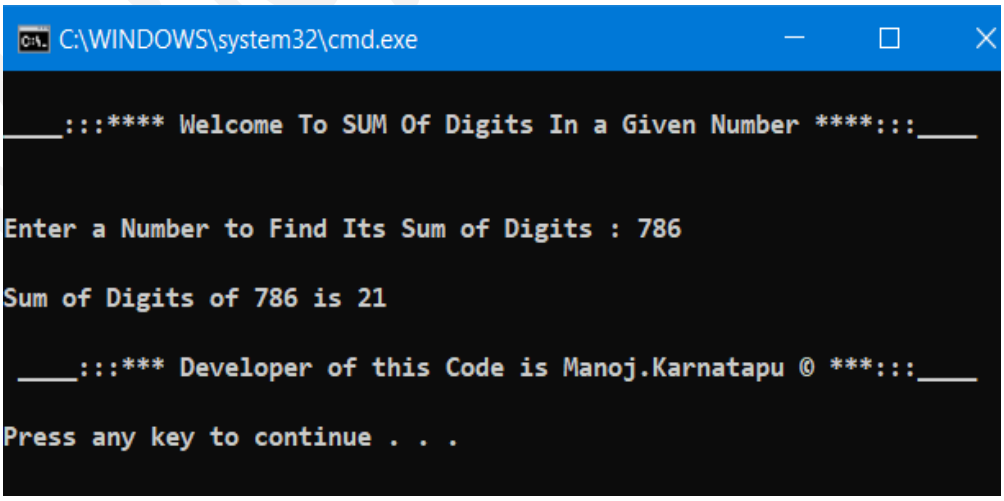
Project 15

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



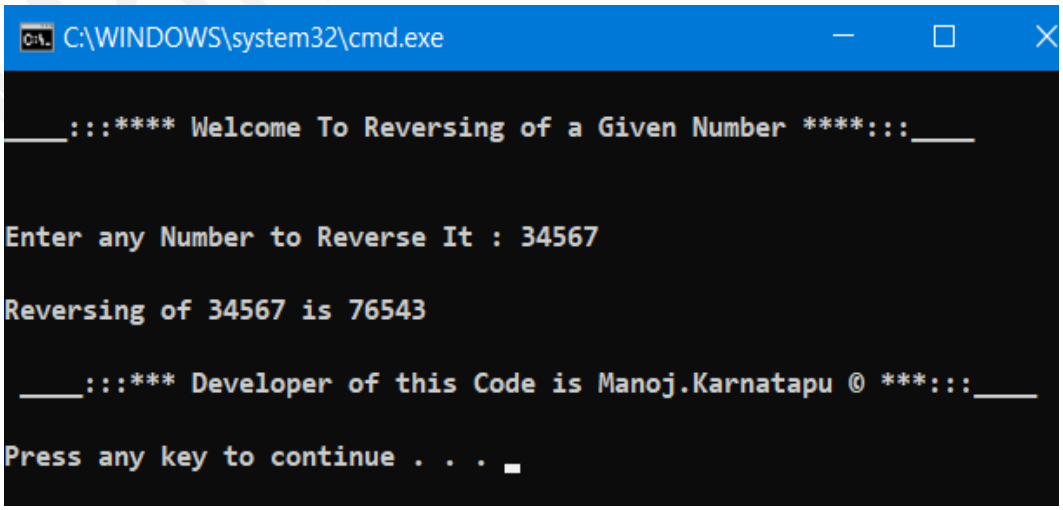
Project 16

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



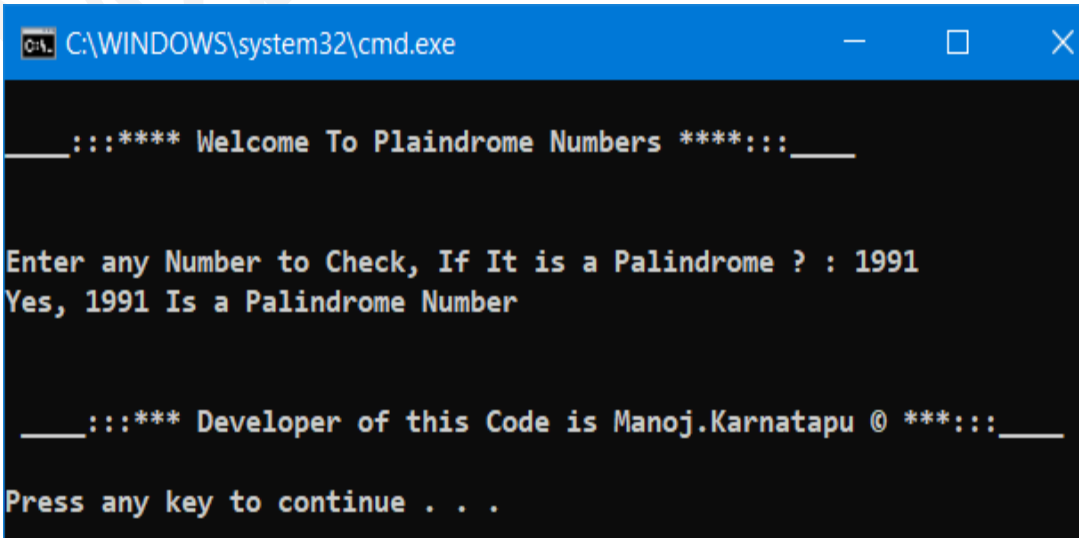
Project 17

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



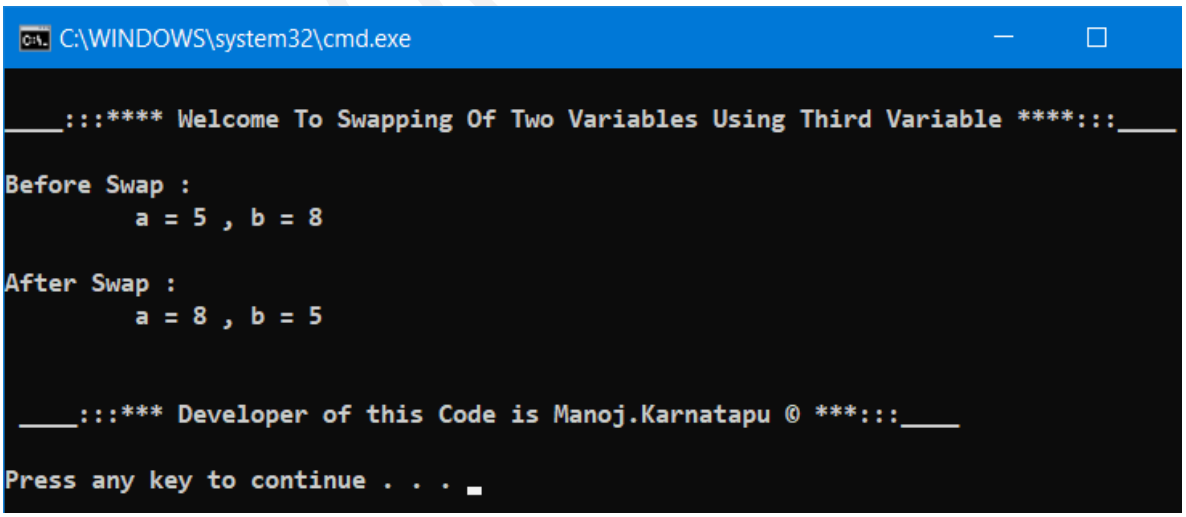
Project 18

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



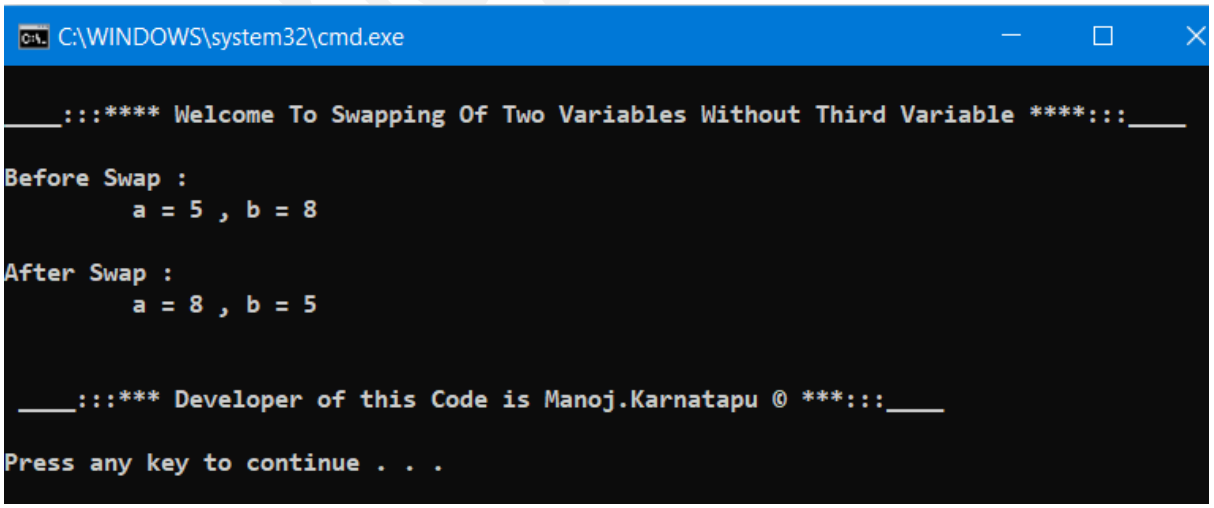
Project 19

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