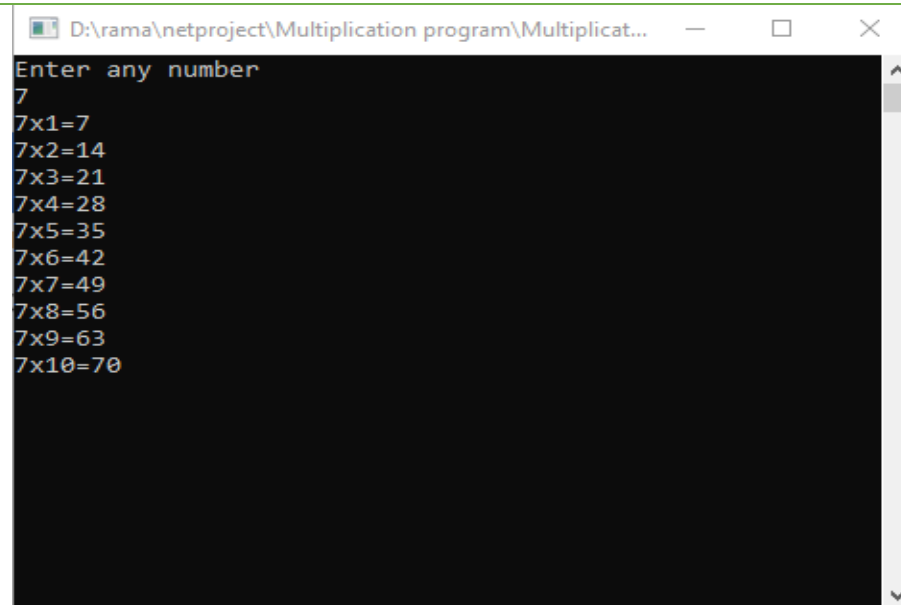


1. Write a multiplication table on C# program

```
int input, i;  
Console.WriteLine("Enter any number");  
input = Convert.ToInt32(Console.ReadLine());  
for(i=1;i<=10;i++)  
{  
    for(i=1;i<=10;i++)  
    {  
        Console.WriteLine(input + "x" + i + "=" + input*i);  
    }  
    Console.ReadLine();  
}
```

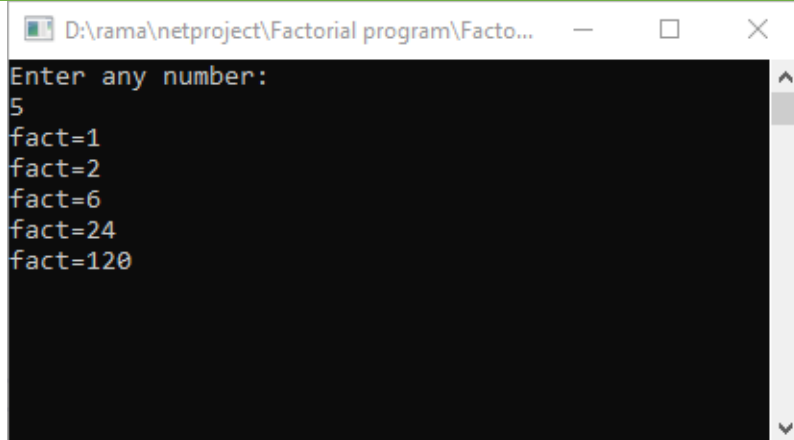


The screenshot shows a Windows console window titled "D:\rama\netproject\Multiplication program\Multiplicat...". The console output is as follows:

```
Enter any number  
7  
7x1=7  
7x2=14  
7x3=21  
7x4=28  
7x5=35  
7x6=42  
7x7=49  
7x8=56  
7x9=63  
7x10=70
```

2 . Print Factorial of given number in C# program

```
int input, i;  
Console.WriteLine("Enter any number");  
input = Convert.ToInt32(Console.ReadLine());  
for(i=1;i<=10;i++)  
  
for(i=1;i<=10;i++)  
{  
    Console.WriteLine(input +"x"+i+"="+input*i);  
}  
Console.ReadLine();
```

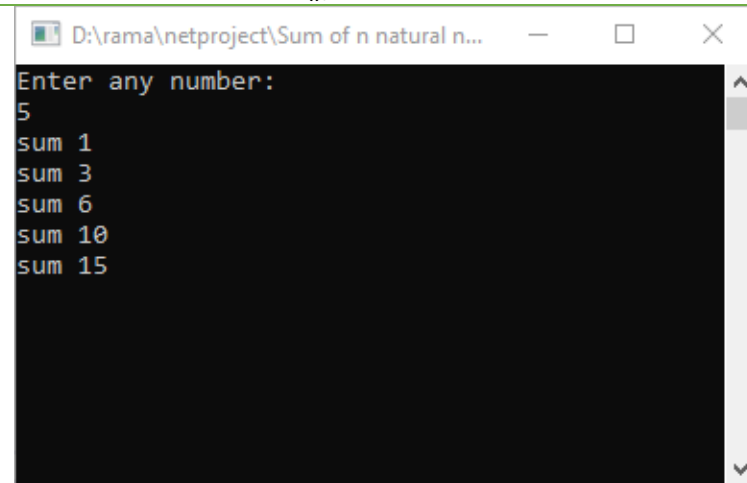


The screenshot shows a console window titled "D:\rama\netproject\Factorial program\Facto...". The output of the program is as follows:

```
Enter any number:  
5  
fact=1  
fact=2  
fact=6  
fact=24  
fact=120
```

3 . Write a C# program to print Sum of n natural numbers

```
int i, n, sum = 0;
    Console.WriteLine("Enter any number:");
    n = Convert.ToInt32(Console.ReadLine());
    for(i=1;i<=n;i++)
    { sum =sum +i;
    Console.WriteLine("sum "+sum);
    }
    Console.ReadLine();
```



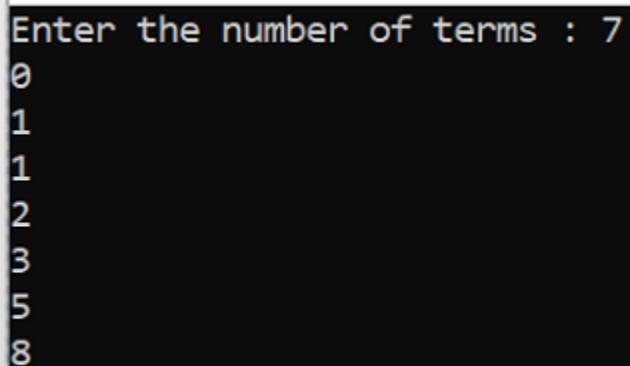
```
D:\rama\netproject\Sum of n natural n...
Enter any number:
5
sum 1
sum 3
sum 6
sum 10
sum 15
```

4. Write a c# program of fibonacci series

Program:

```
internal class Program
{
    static void Main(string[] args)
    {
        int n, a = 0, b = 1, c, i;
        Console.WriteLine("Enter the number of terms : ");
        n = Convert.ToInt32(Console.ReadLine());
        for (i = 0; i < n; i++)
        {
            if (i <= 1)
                c = i;
            else
            {
                c = a + b;
                a = b;
                b = c;
            }
            Console.WriteLine(c);
        }
        Console.ReadLine();
    }
}
```

Output:



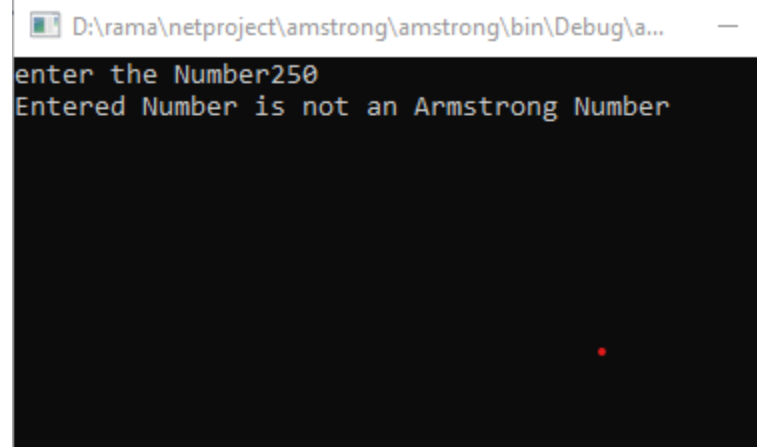
The screenshot shows a black console window with white text. The first line is the prompt "Enter the number of terms : 7". Below it, the Fibonacci series is printed: 0, 1, 1, 2, 3, 5, 8. Each number is on a new line.

```
Enter the number of terms : 7
0
1
1
2
3
5
8
```

5 .Write a C# program of to print Armstrong number


Program: namespace _1

```
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int number, remainder, sum = 0;
            Console.WriteLine("enter the Number");
            number = Convert.ToInt32(Console.ReadLine());
            for (int i = number; i > 0; i = i / 10)
            {
                remainder = i % 10;
                sum = sum + remainder * remainder * remainder;
            }
            if (sum == number)
            {
                Console.WriteLine("Entered Number is an Armstrong Number");
            }
            else
            {
                Console.WriteLine("Entered Number is not an Armstrong Number");
            }
            Console.ReadLine();
        }
    }
}
```



6 .Write a program to print a reverse of given number

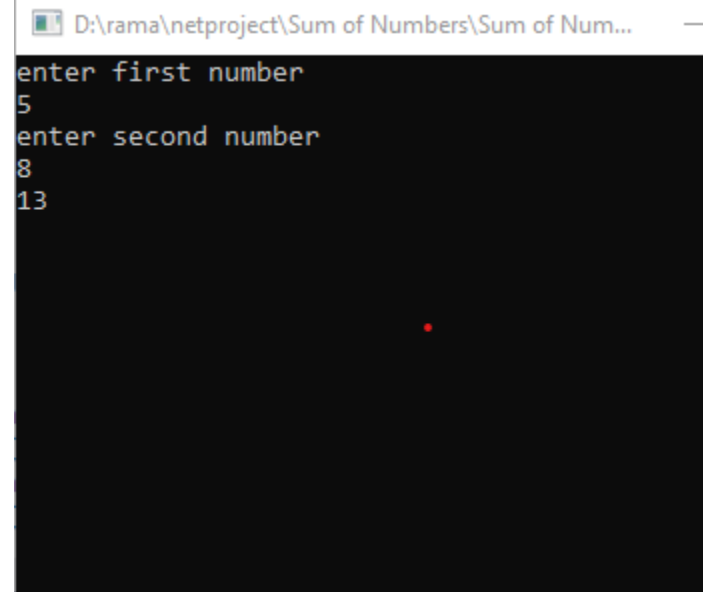
```
namespace _1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("Enter a No. to reverse");
            int Number = Convert.ToInt32(Console.ReadLine());
            int Reverse = 0;
            while (Number > 0)
            {
                int remainder = Number % 10;
                Reverse = (Reverse * 10) + remainder;
                Number = Number / 10;
            }
            Console.WriteLine("Reverse No. is {0}", Reverse);
            Console.ReadLine();
        }
    }
}
```

 D:\rama\netproject\Rerve of given number\Rerve of gi...

```
Enter a No. to reverse
45895
Reverse No. is 59854
```

7 . Write a C# program to print sum of numbers

```
namespace _1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int fn, sn, sum = 0;
            Console.WriteLine("enter first number");
            fn = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("enter second number");
            sn = Convert.ToInt32(Console.ReadLine());
            sum = fn + sn;
            Console.WriteLine(sum);
            Console.ReadLine();
        }
    }
}
```

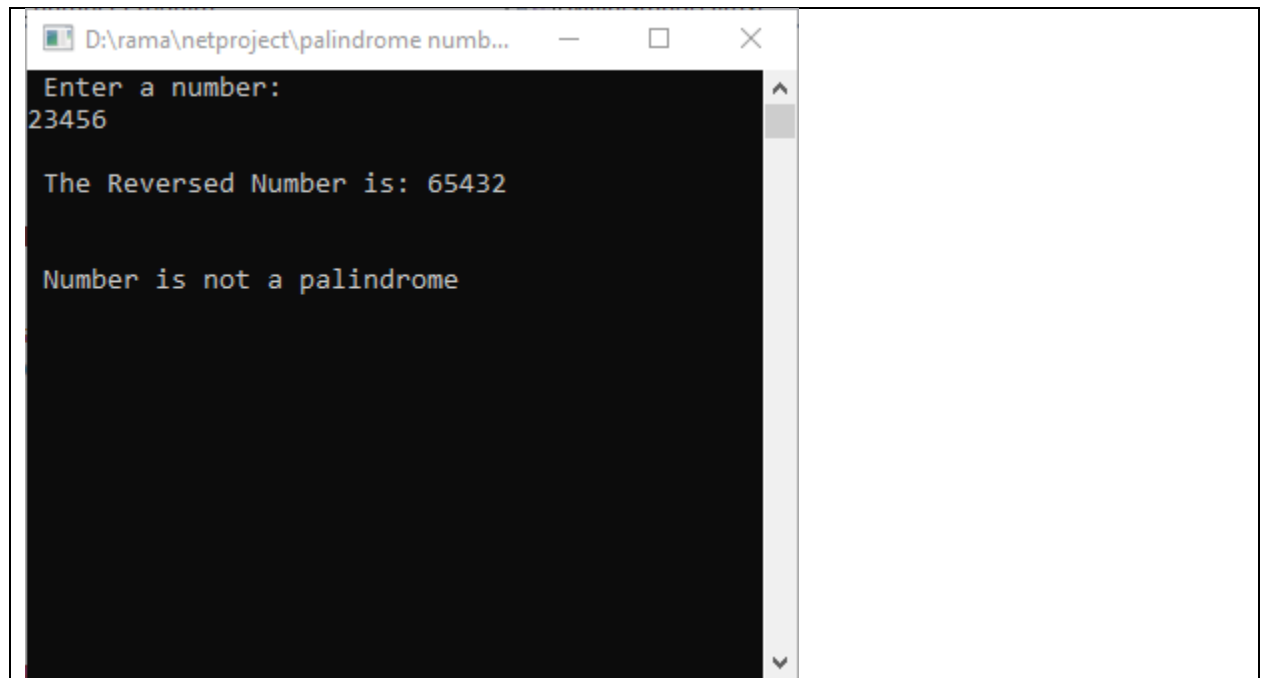


```
D:\rama\netproject\Sum of Numbers\Sum of Num...
enter first number
5
enter second number
8
13
```

8 . Write a C# program to print palindrome numbers

```
namespace _1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int num, rem, sum = 0, temp;

            Console.WriteLine(" Enter a number: ");
            num = Convert.ToInt32(Console.ReadLine());
            temp = num;
            while (num > 0)
            {
                rem = num % 10;
                num = num / 10;
                sum = sum * 10 + rem;
            }
            Console.WriteLine("\n The Reversed Number is: {0} \n", sum);
            if (temp == sum)
            {
                Console.WriteLine("\n Number is Palindrome \n\n");
            }
            else
            {
                Console.WriteLine("\n Number is not a palindrome \n\n");
            }
            Console.ReadLine();
        }
    }
}
```

```
Enter a number:
23456

The Reversed Number is: 65432

Number is not a palindrome
```

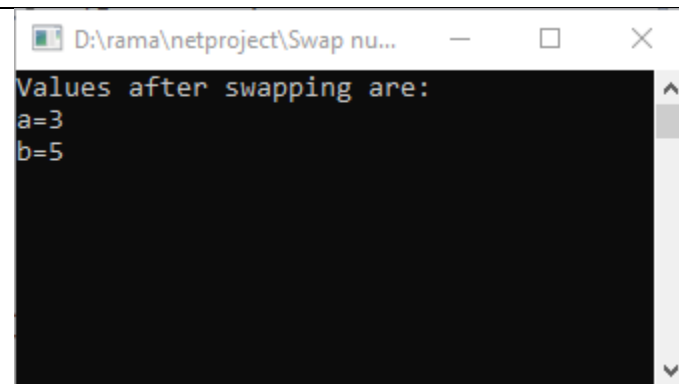
9. Write a C# program to print swap numbers using third variable

```
namespace _1
{
    internal class Program
    {
        static void Main(string[] args)
        {

        {
int a = 5, b = 3, temp;

temp = a;
a = b;
b = temp;

Console.WriteLine("Values after swapping are:");
Console.WriteLine("a=" + a);
Console.WriteLine("b=" + b);
Console.ReadLine();
}
}
}
```

A screenshot of a console window titled "D:\rama\netproject\Swap nu...". The window has a black background with white text. The output displayed is: "Values after swapping are:", "a=3", and "b=5". The text is aligned to the left. There is a vertical scrollbar on the right side of the console window.

```
Values after swapping are:
a=3
b=5
```

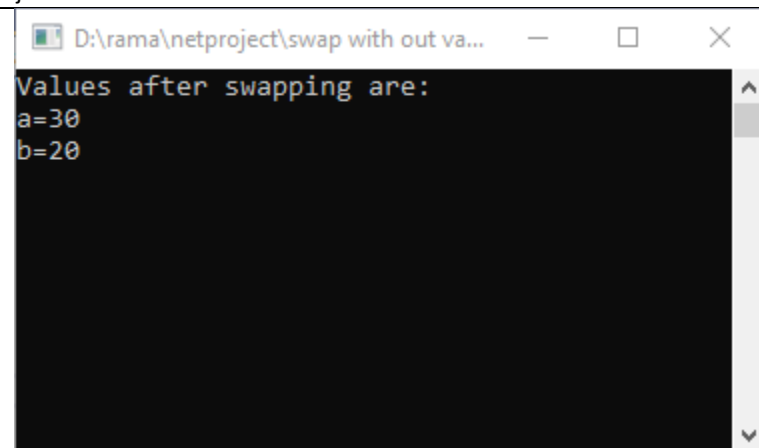
10 Write a C# program to print without using third variable

internal class Program

```
{
    static void Main(string[] args)
    {
        {
            int a = 20, b = 30;

            a = a + b;
            b = a - b;
            a = a - b;

            Console.WriteLine("Values after swapping are:");
            Console.WriteLine("a=" + a);
            Console.WriteLine("b=" + b);
            Console.ReadLine();
        }
    }
}
```

A screenshot of a Windows console window. The title bar shows the file path "D:\rama\netproject\swap with out va...". The console output displays the text "Values after swapping are:" followed by "a=30" and "b=20" on separate lines. The console has a black background with white text and a vertical scrollbar on the right side.

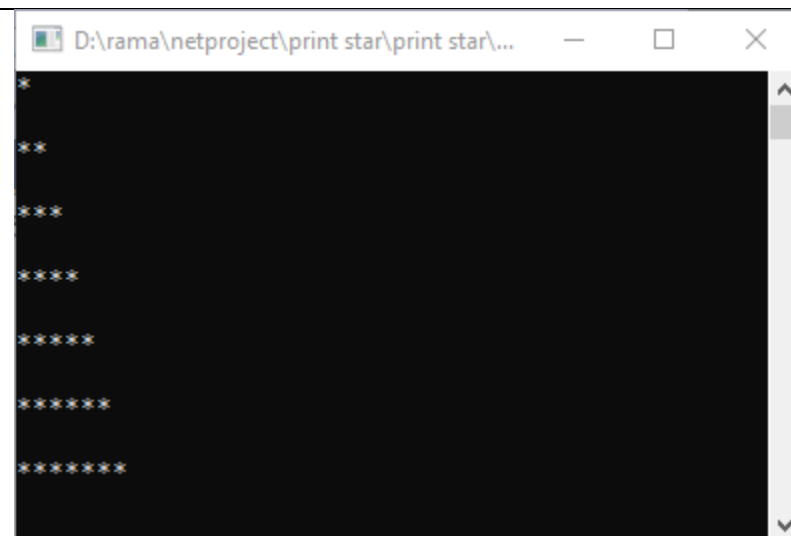
```
D:\rama\netproject\swap with out va...
Values after swapping are:
a=30
b=20
```

11 .Write a C# program to print stars

```
namespace _1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            for (int row = 1; row <= 8; ++row)
            {
                for (int col = 1; col <= row; ++col)
                {
                    Console.Write("*");
                }

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



D:\rama\netproject\print star\print star\...

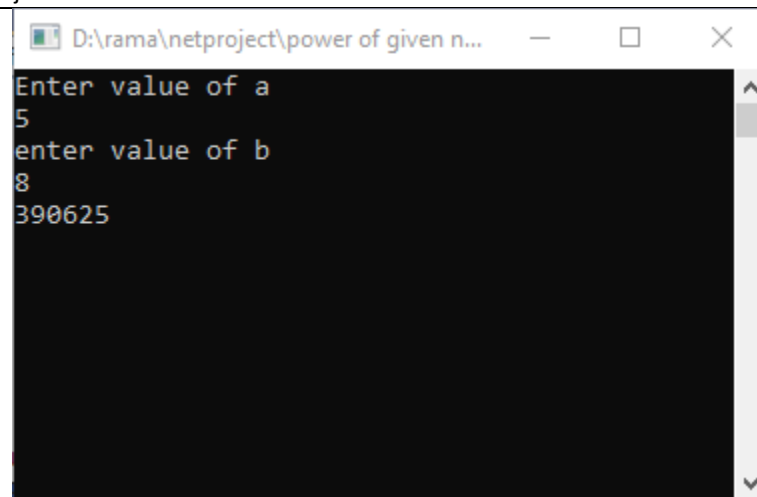
```
*
**
***
****
*****
*****
*****
*****
```

12. Write a C# program to print power of given number

Namespace _1

```
{
    internal class Program
    {
        static void Main (string [] args)
        {
            int a, b, result = 1, i;
            Console.WriteLine("Enter value of a");
            a = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("enter value of b");
            b = Convert.ToInt32(Console.ReadLine());
            for (i = 1; i <= b; i++)
                result = result * a;
            Console.WriteLine(result);
            Console.ReadLine();

        }
    }
}
```

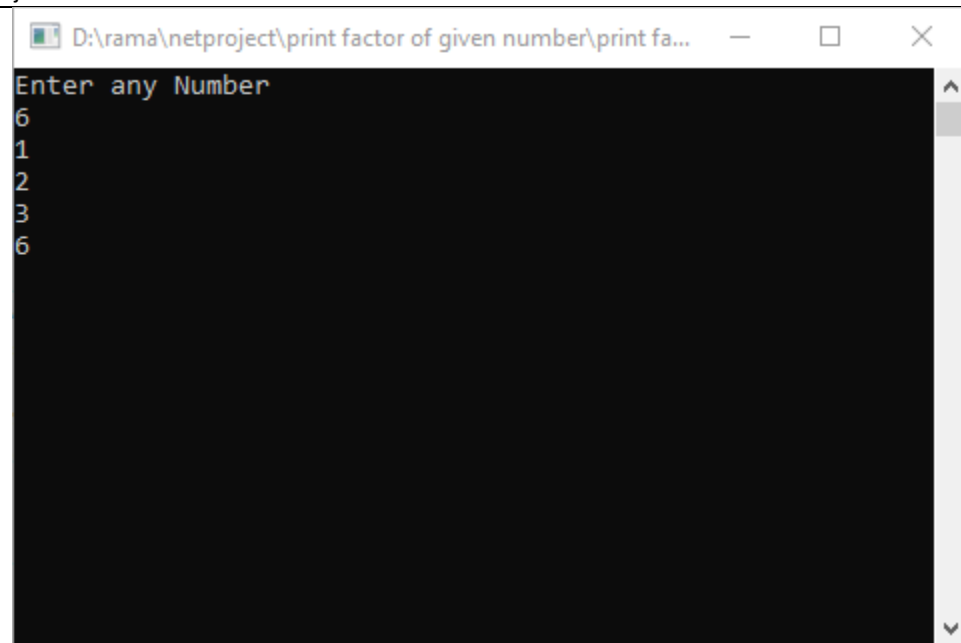


```
D:\rama\netproject\power of given n...
Enter value of a
5
enter value of b
8
390625
```

13 .Write a C# program to print factor of given number

```
namespace _1
{
    internal class Program
    {
        static void Main (string [] args)
        {
            int input, i;
            Console.WriteLine("Enter any Number");
            input = Convert.ToInt32(Console.ReadLine());
            for ( i =1; i <= input; i++)
            {
                if (input % i == 0)
                    Console.WriteLine(i);

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



The screenshot shows a console application window titled "D:\rama\netproject\print factor of given number\print fa...". The prompt "Enter any Number" is displayed. The user has entered "6", and the program has output the factors of 6: "1", "2", "3", and "6", each on a new line.

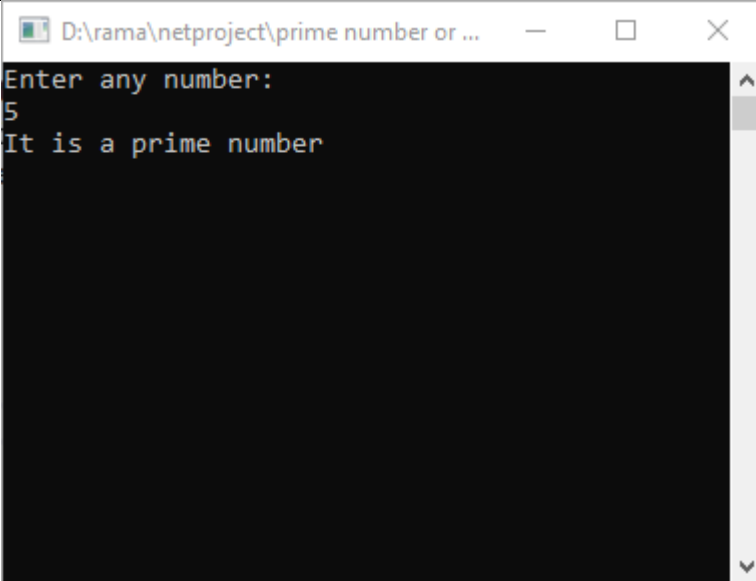
14 . Write a C# program to check prime number or not

Program: namespace -1

```
{
    internal class Program
    {
        static void Main(string[] args)
        {
            {
                int input, i, count = 0;
                Console.WriteLine("Enter any number:");
                input = Convert.ToInt32(Console.ReadLine());

                for (i = 1; i <=input; i++)
                {
                    if (input%i==0)
                        count++;
                }
                if (count == 2)
                    Console.WriteLine("It is a prime number", input);
                else Console.WriteLine("It is not a prime number", input);
                Console.ReadLine();
            }
        }
    }
}
```

Output:



The screenshot shows a console window titled "D:\rama\netproject\prime number or ...". The output text is as follows:

```
Enter any number:
5
It is a prime number
```

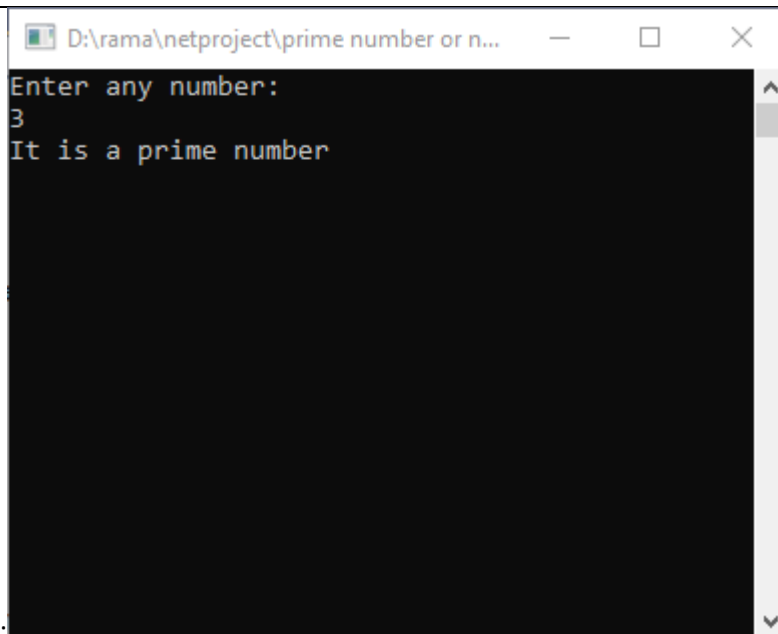
15...Write a C# program to prime number check using function

Program: namespace

```
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int input, i, count = 0;
            Console.WriteLine("Enter any number:");
            input = Convert.ToInt32(Console.ReadLine());

            for (i = 1; i <=input; i++)
            {
                if (input%i==0)
                    count++;
            }
            if (count == 2)
                Console.WriteLine("It is a prime number", input);
            else Console.WriteLine("It is not a prime number", input);
            Console.ReadLine();
        }
    }
}
```

Output:

A screenshot of a Windows console application window. The title bar shows the file path "D:\rama\netproject\prime number or n...". The console output is as follows:
Enter any number:
3
It is a prime number
The console has a black background with white text. A vertical scrollbar is visible on the right side of the console area.

16..Write a C# program prime number is in Range

Program: namespace

```
{
    internal class Program
    {

        static void Main(string[] args)
        {

            Console.WriteLine("Enter number 1:");

            int input1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter number 2:");
            int input2 = Convert.ToInt32(Console.ReadLine());

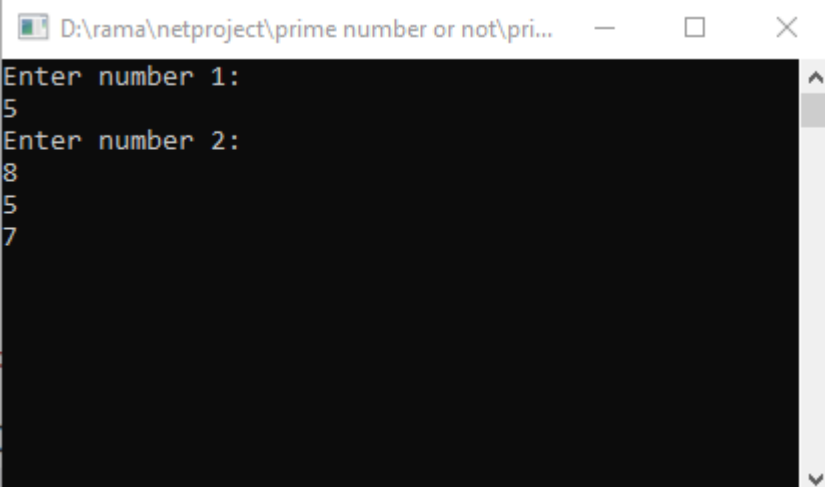
            for(int i = input1; i <= input2; i++)
            {
                isPrime(i);
            }

            Console.ReadLine();
        }

        static void isPrime(int input)
        {
            bool isPrimenum = true;
            for (int i = 2; i < input; i++)
            {
                if (input % i == 0)
                {
                    isPrimenum = false;
                }
            }

            if (isPrimenum == true)
            {
                Console.WriteLine(input);
            }
        }
    }
}
```

```
}
```



Output:

17. Write a C# program of Armstrong using Function

Program:

```
{
    internal class Program
    {

        static void Main(string[] args)
        {
            int n, rem, m, res = 0;
            Console.WriteLine("Enter any number :");

            n = Convert.ToInt32(Console.ReadLine());
            getArmtrong(n);
            Console.ReadLine();
        }

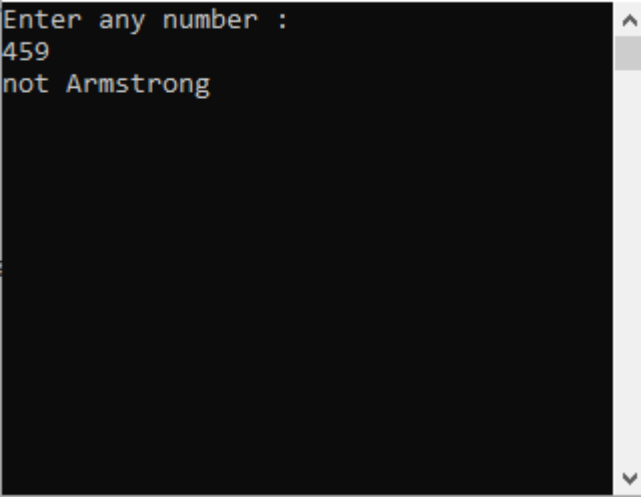
        static void getArmtrong(int n)
        {
            int rem, m, res = 0;

            m = n;
            while (m > 0)
            {

                rem = m % 10;
```

```
m /= 10;  
res = res + rem * rem * rem;  
  
}  
Console.WriteLine((res == n) ? "Armstrong" : "not Armstrong");  
  
}  
  
}  
  
}
```

Output :



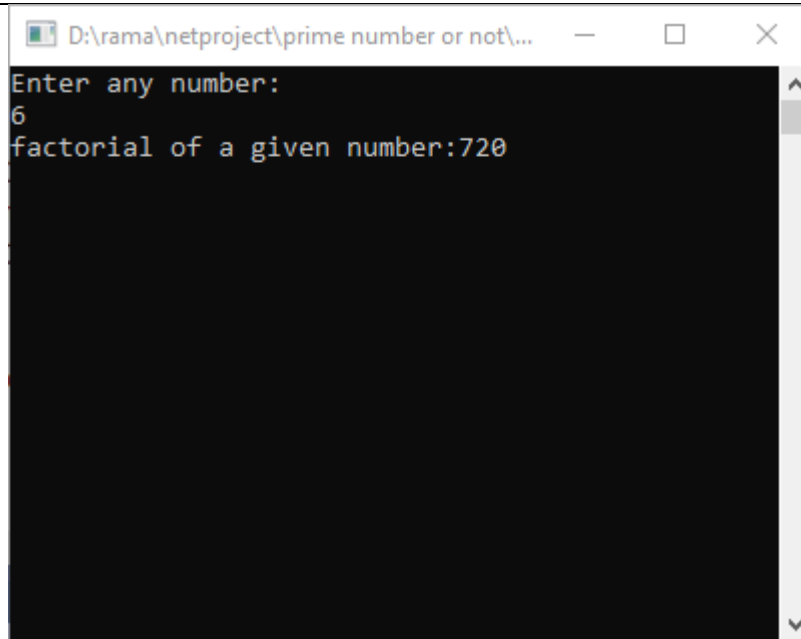
```
D:\rama\netproject\prime ...  
Enter any number :  
459  
not Armstrong
```

18. Write a C# program print factorial of using Recursion

Program: internal class Program

```
{
    static void Main(string[] args)
    {
        int input, i, fact = 1; ;
        Console.WriteLine("Enter any number:");
        input = Convert.ToInt32(Console.ReadLine());
        for (i = 1; i <=input; i++)
            fact = fact * i;
        Console.WriteLine("factorial of a given number:" +fact );
        Console.ReadLine();
    }
}
```

OUTPUT:



```
D:\rama\netproject\prime number or not\...
Enter any number:
6
factorial of a given number:720
```

19. Write a C# program print factorial of using Recursion

Program: namespace

```
{
    internal class Program
    {

        static void Main(string[] args)
        {

            Console.WriteLine("Enter any number:");
            int input = Convert.ToInt32(Console.ReadLine());

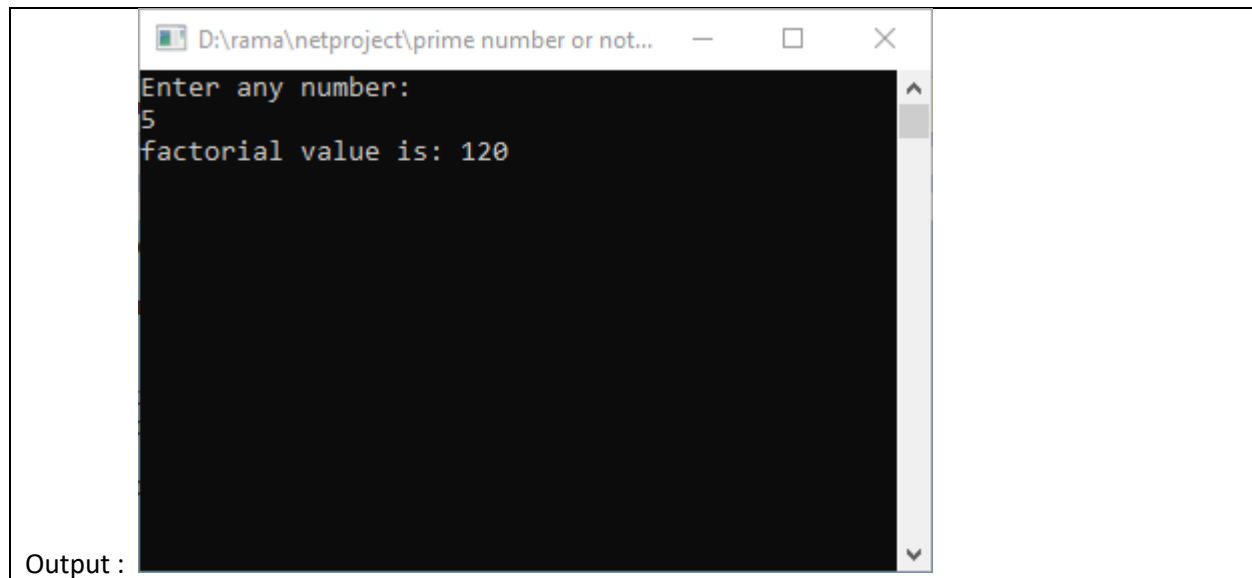
            int factorial= getFact(input);

            Console.WriteLine("factorial value is: " + factorial);

            Console.ReadLine();
        }
        static int getFact(int input)
        {

            if (input == 0)
                return 1;
            else
                return input * getFact(input - 1);
        }

    }
}
```



Output :

20 Write a C# program reverse of given number

Program: amespace Day_4_Multiplication_prgm_1

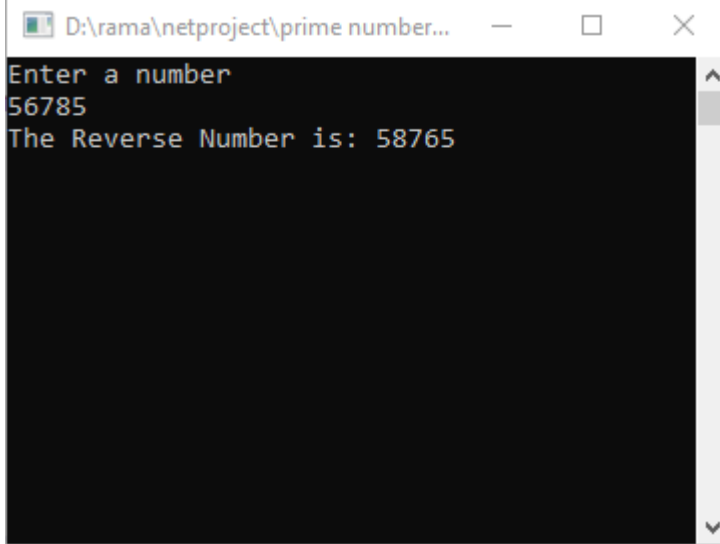
```
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int n,m,rem,rev=0;
            Console.WriteLine("Enter a number");
            n= Convert.ToInt32(Console.ReadLine());
            m = n;
            while(m>0)
            {
                rem = m % 10;
                m= m / 10;
                rev = rev * 10 + rem;
            }

            Console.WriteLine("The Reverse Number is: " +rev);

            Console.ReadLine();

        }
    }
}
```

```
}
```



Output: