

```
Program 1:
Write a C# Program to print MULTIPLICATION TABLE of a number
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day_2_eve_multiplication_of_a_num_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 <= 10; i++)
                 Console.WriteLine(input + "x" + i + "=" + input * i);
             Console.ReadLine();
        }
    }
Output:
 ■ Select E:\NBHT\.NET PROJECTS\Day 2 eve multiplication of a num 1\Day 2 eve mul...
Enter any number
 7x1=7
 7x2=14
 7x3 = 21
 7x4 = 28
 7x5 = 35
 7x6=42
 7x7=49
 7x8=56
 7x9=63
 7x10=70
```

# Program 2:

Write a C# Program to print a FACTORIAL of a given number:

```
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day_2_eve_factorial_of_a_num
    internal class Program
        static void Main(string[] args)
             int input, product = 1, i;
             Console.WriteLine("Enter any number");
             input = Convert.ToInt32(Console.ReadLine());
             for (i = 1; i <= input; i++)</pre>
                 product = product * i;
             Console.WriteLine(product);
            Console.ReadLine();
        }
    }
}
```

#### Output:

E:\NBHT\.NET PROJECTS\Day 2 eve factorial of a num\Day 2 eve factorial of a nu...

Enter any number 17 15040

# Program 3: Write a C# Program to print a SUM OF N NATURAL NUMBERS: Code: using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace Day\_2\_eve\_sum\_of\_n\_natural\_num internal class Program static void Main(string[] args) int input, sum = 0, i; Console.WriteLine("Enter any number:"); input = Convert.ToInt32(Console.ReadLine()); for (i = 1; i <= input; i++)</pre> sum = sum + i;Console.WriteLine(sum); Console.ReadLine(); } } }

E:\NBHT\.NET PROJECTS\Day 2 eve sum of n natural num\Day 2 eve sum of n natural nu

Output:

```
Enter any number:
7
28
```

# Program 4: Write a C# Program to print a FACTORIAL using FUNCTIONS: Code: using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace factorial\_using\_function internal class Program public static void printOutout(int n) Console.WriteLine("factorial of {0} ={1}", n, factorial(n)); public static int factorial(int n) int fact = 1; for (int i = 1; i <= n; i++)</pre> fact = fact \* i; return fact; static void Main(string[] args) int n = 7, n1 = 8, n2 = 3; printOutout(n); printOutout(n1); printOutout(n2); Console.ReadLine();

Output:

}

}

E:\NBHT\.NET PROJECTS\factorial using function\factorial using function\bin\Debug\fac

```
factorial of 7 =5040
factorial of 8 =40320
factorial of 3 =6
```

# Program 5:

Write a C# Program to print a FACTORIAL using RECURSION:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace factorial_program_using_recursion
    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:

■ E:\NBHT\.NET PROJECTS\factorial program using recursion\factorial program using recu

```
Enter any number:
8
factorial value is: 40320
```

```
Program 6:
Write a C# Program to print a FACTORS of a given Number:
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day_2_eve_factors_of_a_num
    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++)</pre>
                 if (input % i == 0)
                     Console.WriteLine(i);
             Console.ReadLine();
        }
    }
Output:
```

■ E:\NBHT\.NET PROJECTS\Day 2 eve factors of a num\Day 2 eve factors of a num\bin\D€

```
Enter any number
7
1
7
```

```
Program 7:
Write a C# Program to print a POWER of given numbers [ a power b]:
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace power_of_a_num
    internal class Program
        static void Main(string[] args)
            int fn, sn, sum = 0;
            int f = 1;
            fn = 8;
            Console.WriteLine("Enter First Number:");
            fn = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Second Number:");
            sn = Convert.ToInt32(Console.ReadLine());
            for (int i = 1; i <= sn; i++)
                 \dot{f} = f * fn;
            Console.WriteLine("Power =" + f);
            Console.ReadLine();
        }
    }
Output:
```

E:\NBHT\.NET PROJECTS\day 1 project 2\day 1 project 2\bin\Debug\day 1 project 2.exe

```
Enter First Number:
2
Enter Second Number:
4
Power =16
```

# Program 8:

Write a C# Program to print PRIME NUMBER OR NOT:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace prime_or_not
    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++)</pre>
                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:

E:\NBHT\.NET PROJECTS\prime or not\prime or not\bin\Debug\prime or not.exe

```
Enter any number:
7
It is a prime number
```

#### Program 9:

Write a C# Program to print PRIME NUMBER check using FUNCTIONS:

#### Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace prime_or_not_using_functions
    internal class Program
        static void Main(string[] args)
            Console.WriteLine("Enter any number:");
           int input = Convert.ToInt32(Console.ReadLine());
            if (isPrimeNumber(input))
                Console.WriteLine("It is a PrimeNumber", input);
                Console.WriteLine("It is not a PrimeNumber", input);
            Console.ReadLine();
       static bool isPrimeNumber(int input)
            for (int i = 2; i < input; i++){</pre>
                if (input % i == 0)
                    return false;
            }
                return true;
        }
    }
}
```

#### Output:

E:\NBHT\.NET PROJECTS\prime or not using functions\prime or not using functions\bin\

```
Enter any number:
8
It is not a PrimeNumber
```

#### Program 10:

Write a C# Program to print PRIME NUMBERS in RANGE:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace prime_num_in_giving_range
    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++)</pre>
            {
                isPrime(i);
            Console.ReadLine();
        static void isPrime(int input)
            bool isPrimenum = true;
            for (int i = 2; i < input; i++)</pre>
                if (input % i == 0)
                      isPrimenum = false;
                 }
            if (isPrimenum == true)
                Console.WriteLine(input);
            }
           }
    }
}
```

# Output:

■ Select E:\NBHT\.NET PROJECTS\prime num in giving range\prime num in giving range\...

```
Enter number 1:
1
Enter number 2:
7
1
2
3
5
```

# Program 11: Write a C# Program to print a FIBONACCI SERIES: Code: using System; using System.Collections.Generic; using System.Linq; using System.Text; using System.Threading.Tasks; namespace fibonacci\_program internal class Program static void Main(string[] args) int a = 0, b = 1, c, n; Console.WriteLine("Enter number of fibnocci range n-2:"); n = Convert.ToInt32(Console.ReadLine()); Console.WriteLine("0"); Console.WriteLine("1"); for (int i = 0; i < n-2; i++) {</pre> c = a + b;a = b; b = c;Console.WriteLine(c); } Console.ReadLine(); } } } Output E:\NBHT\.NET PROJECTS\fibonacci program\fibonacci program\bin\Debug\fib... Enter number of fibnocci range n-2: .0 1 2 3 5

```
Program 12:
Write a C# Program to print ARMSTRONG NUMBER:
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace armstrong_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());
            m = n;
while (m > 0)
                rem = m % 10;
                m /= 10;
                res = res + rem * rem * rem;
            Console.WriteLine((res == n) ? "Armstrong" : "not");
            Console.ReadLine();
        }
    }
Output:
 E:\NBHT\.NET PROJECTS\armstrong program\...
                                                               Enter any number :
Armstrong
  E:\NBHT\.NET PROJECTS\armstrong program\armstrong prog...
                                                                              Enter any number :
not
```

# Program 13:

Write a C# Program to print a ARMSTRONG NUMBER using FUNCTIONS:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace armstrong_num_using
    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:

■ E:\NBHT\.NET PROJECTS\armstrong num using\armstrong num ... —

```
Enter any number :
7
not Armstrong
```

```
Program 14:
```

Write a C# Program to print a ARMSTRONG NUMBER in RANGE:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace armstrong_num_in_range
    internal class Program
        static void Main(string[] args)
            //Variable declaration and read data from user
            int input1, input2, i;
            Console.WriteLine("Enter first number");
            input1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter second number");
            input2 = Convert.ToInt32(Console.ReadLine());
            //Printing Output
            Console.WriteLine("Armstrong numbers between the given range:");
            for (i = input1; i <= input2; i++)</pre>
                if (isArmstrongnumber(i))
                    Console.WriteLine(i);
            Console.ReadLine();
        }
        //Logic
        public static Boolean isArmstrongnumber(int input)
            int m, rem;
            int result = 0;
            m = input;
            while (m > 0)
            {
                rem = m % 10;
                m = m / 10;
                result = result + rem * rem * rem;
            if (result == input)
                return true;
            else
                return false;
        }
    }
}
```

#### Output:

■ E:\NBHT\.NET PROJECTS\armstrong num in range\armstrong num in range\bin\Debug\a...

```
Enter first number
2
Enter second number
478
Armstrong numbers between the given range:
153
370
371
407
```

#### Program 15:

Write a C# Program to print a SUM OF DIGITS of given number:

#### Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace sum_of_DIGITS
    internal class Program
        static void Main(string[] args)
            //Variable declaration and read data from user
            int input;
            int m, rem;
            int result = 0;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic
            m = input;
            while (m > 0)
                rem = m % 10;
                m = m / 10;
                result = result + rem;
            //Output
            Console.WriteLine("Sum of the digits of {0} is {1}", input, result);
            Console.ReadLine();
        }
    }
}
```

# Output:

E:\NBHT\.NET PROJECTS\sum of DIGITS\sum of DIGITS\bin\Debug\s...

```
Enter a number
7799
Sum of the digits of 7799 is 32
```

# Program 16:

Write a C# Program to print a REVERSE of a Given Number:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Reverse_of_a_given_num
    internal class Program
        static void Main(string[] args)
            //Variable declaration and read data from user
            int input;
            int m, rem;
            int rev = 0;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic
            m = input;
            while (m > 0)
            {
                rem = m % 10;
                m = m / 10;
                rev = rev * 10 + rem;
            //Output
            Console.WriteLine("Reverse of {0} is {1}", input, rev);
            Console.ReadLine();
        }
    }
```

#### Output:

■ E:\NBHT\.NET PROJECTS\Reverse of a given num\Reverse of a gi... –

Enter a number 783 Reverse of 783 is 387

#### Program 17:

Write a C# Program to print a PALINDROME NUMBER:

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Palindrome_program
    internal class Program
        static void Main(string[] args)
            //Variable declaration and read data from user
            int input;
            int m, rem;
            int rev = 0;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic and Output
            m = input;
            while (m > 0)
            {
                rem = m % 10;
                m = m / 10;
                rev = rev * 10 + rem;
            if (input == rev)
                Console.WriteLine("{0} is a Palindrome", input);
                Console.WriteLine("{0} is not a Palindrome", input);
            Console.ReadLine();
        }
    }
}
```

## Output:

■ E:\NBHT\.NET PROJECTS\Palindrome program\Palindrome program\bin\Debug\Palindrome

```
Enter a number
783
783 is not a Palindrome
```

# Program 18:

# Write a C# Program to print SWAP NUMBERS using THIRD VARIABLE:

#### Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace swap_2_nums_using_3rd_variable
    internal class Program
        static void Main(string[] args)
            int a = 7, b = 8, temp;
            temp = a;
            a = b;
            b = temp;
            Console.WriteLine("Values after swapping are:");
            Console.WriteLine("a=" + a);
            Console.WriteLine("b=" + b);
            Console.ReadLine();
        }
    }
}
```

#### Output:

■ E:\NBHT\.NET PROJECTS\swap 2 nums using 3rd variable\swap 2 nums using 3rd variab

```
Values after swapping are:
```

1a=8 b=7

```
Program 19:
Write a C# Program to print a SWAP NUMBERS WITHOUT using THIRD VARIBLE
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace swap_2_nums_without_using_3rd_value
    internal class Program
        static void Main(string[] args)
            int a = 10, b = 20;
            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();
        }
    }
}
Output:
  E:\NBHT\.NET PROJECTS\swap 2 nums without using 3rd value\swap 2 ...
 Values after swapping are:
```

a=20 b=10

# Program 20:

Write a C# Program to print Stars (\*) in a pattern [RIGHT ANGLED TRIANGLE PATTERN]

## Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace STARS_PRINT__right_angled_triangle_
  internal class Program
    static void Main(string[] args)
      // Variable declaration
      int input, i, j;
      Console.WriteLine("No.of rows to be print");
      input = Convert.ToInt32(Console.ReadLine());
      //Logic and output
      for (i = 1; i <= input; i++)
        for (j = 1; j \le i; j++)
          Console.Write("* ");
        Console.WriteLine();
      Console.ReadLine();
   }
 }
```

омерие.

E:\NBHT\.NET PROJECTS\STARS PRINT [right angled triangle]\STARS PRINT [right angle...

```
No.of rows to be print
7
*
* *
* * *
* * *
* * * *
* * * * *
* * * * * *
* * * * * *
```