

Write a C# Program to print multiplication table of a given number

```
CODE
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace multiplication_0__fromat
    internal class Program
        static void Main(string[] args)
            int i, v;
            Console.WriteLine("Enter number: ");
            v = Convert.ToInt32(Console.ReadLine());
            for (i = 1; i <= 10; i++)
                Console.WriteLine("\{0\}*\{1\}=\{2\}", v, i, v * i);
            Console.ReadLine();
        }
    }
}
```

OUTPUT:

🔃 F:\NH\DotNetProjects\multiplication{0} fromat\multiplication{0} fromat\bin\Debug\multiplication{0} fromat.exe

```
8*1=8
8*2=16
8*3=24
8*4=32
8*5=40
8*6=48
8*7=56
8*8=64
8*9=72
8*10=80
```

```
Program: 2
```

Write a C# program to Print FACTORIAL of a given number

```
CODE
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Factorial_1
    internal class Program
        static void Main(string[] args)
            int i, num, fact = 1;
            Console.WriteLine("Enter num :");
            num = Convert.ToInt32(Console.ReadLine());
            for(i =1;i<=num;i++)</pre>
                fact = fact*i;
            Console.WriteLine("Factorial of " +num+ " is: " + fact);
            Console.ReadLine();
        }
    }
}
```

OUTPUT:

F:\NH\DotNetProjects\Factorial 1\Factorial 1\bin\Debug\Factorial 1.exe

```
Enter num :
6
Factorial of 6 is: 720
```

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

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace n_natural_numbers_day3
    internal class Program
        static void Main(string[] args)
            int j, n, sum =0;
            Console.WriteLine("Enter n number");
            n = Convert.ToInt32(Console.ReadLine());
            for (j = 1; j <=n; j++)</pre>
                sum+=j;
            Console.WriteLine("\nSum of N Numbers : " + sum);
            Console.ReadLine();
        }
    }
}
```

```
F:\NH\DotNetProjects\n natural numbers day3\n natural numbers day3\bin\Debug\n natural numbers day3.exe

Enter n number

6

Sum of N Numbers : 21
```

```
Program: 4
```

Write a C# program to Print FACTORIAL using function

```
CODE
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Factorialusingrecurssion
    internal class Program
        public static void Output(int n)
            Console.WriteLine("Factorial of {0} ={1}", n, factorial(n));
        //Logic
        public static int factorial(int n)
            int fact = 1;
            for (int i = 1; i <= n; i++)
                fact = fact * i;
            return fact;
        }
        static void Main(string[] args)
            //Intialisation and read data from user
            int n, n1, n2;
            Console.WriteLine("Enter first number");
            n = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter second number");
            n1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter third number");
            n2 = Convert.ToInt32(Console.ReadLine());
            Output(n);
            Output(n1);
            Output(n2);
            Console.ReadLine();
        }
    }
```

```
F:\NH\DotNetProjects\Factorial 1\Factorial 1\bin\Debug\Factorial 1.exe
Enter first number
5
Enter second number
6
Enter third number
9
Factorial of 5 =120
Factorial of 6 =720
Factorial of 9 =362880
```

Write a C# Program to Print FACTORIAL of a given number

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Factorialusingrecurssion
    internal class Program
        static void Main(string[] args)
            int n;
            Console.WriteLine("Enter a number");
            n = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Factorial of {0} is {1}", n, Factorial(n));
            Console.ReadLine();
        static int Factorial(int input)
            if (input == 0)
                return 1;
            else
                return input * Factorial(input - 1);
        }
    }
}
```

OUTPUT:

F:\NH\DotNetProjects\Factorial 1\Factorial 1\bin\Debug\Factorial 1.exe

```
Enter first number

5
Enter second number

6
Enter third number

9
Factorial of 5 =120
Factorial of 6 =720
Factorial of 9 =362880
```

Write a C# Program to Print FACTORIAL of a given number

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Factors
    internal class Program
        static void Main(string[] args)
             int i, n;
             Console.WriteLine("Enter number");
             n = Convert.ToInt32(Console.ReadLine());
             for (i = 1; i <= n;i++)</pre>
                 if(n%i==0)
                     Console.WriteLine( i);
             Console.ReadLine();
        }
    }
}
```

OUTPUT

F:\NH\DotNetProjects\Factors\Factors\bin\Debug\Factors.exe

```
Enter number
8
1
2
4
```

Write a C# Program to Print 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 A_power_B
     internal class Program
          public static int Power(int a, int b)
                int p = 1;
                for(int i =1;i<b;i++)</pre>
                     p *= a;
                return p;
          }
          static void Main(string[] args)
                int a1 = 5; int b1 = 4 , a2 = 2, b2 = 6 , a3 = 3, b3 = 5;
               Console.WriteLine("{0} power {1} = {2}", a1, b1, Power(a1, b1));
Console.WriteLine("{0} power {1} = {2}", a2, b2, Power(a2, b2));
Console.WriteLine("{0} power {1} = {2}", a2, b2, Power(a3, b3));
                Console.ReadLine();
          }
     }
}
```

OUTPUT:

Select F:\NH\DotNetProjects\A power B\A power

```
5 power 4 = 125
2 power 6 = 32
2 power 6 = 81
```

Write a C# program to find 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 i, v, count = 0;
            Console.WriteLine("Enter any number: ");
            v = Convert.ToInt32(Console.ReadLine());
            for(i=1;i<=v;i++)</pre>
                if (v % i == 0)
                    count++;
            if (count == 2)
                Console.WriteLine("v is a PRIME number", v);
                Console.WriteLine("v is NOT a PRIME Number", v);
            Console.ReadLine();
        }
    }
}
```

```
F:\NH\DotNetProjects\Prime or no
Enter any number:
7
7 is a PRIME number
```

```
Select F:\NH\DotNetProjects\Prime or n
Enter any number:
12
12 is NOT a PRIME Number
```

Write a C# program to find prime number [Using Function]

CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Prime_using_Function
    internal class Program
        public static bool Prime(int num)
            for(int i=2;i<num;i++)</pre>
                if(num%i==0)
                    return true;
            return false;
        }
        public static void Main(string[] args)
            Console.WriteLine("Enter any Number :");
            int p = Convert.ToInt32(Console.ReadLine());
                if (Prime(p))
                    Console.WriteLine("{0} is NOT PRIME.", p);
                else
                    Console.WriteLine("{0} is PRIME.", p);
            Console.ReadLine();
        }
    }
}
```

```
F\NH\DotNetProject\Prime using Function\Prime using Function\bin\Debug\Prime using Function.exe
Enter any Number :
9
9 is NOT PRIME.
```

```
■ F:\NH\DotNetProjects\Prime using Function\Prime using Function\bin\Debug\Prime using Function.exe

Enter any Number :

5 is PRIME.
```

Write a C# program to find PRIME NUMBERS in RANGE

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Primenumbers_in_a_range
    internal class Program
        static void Main(string[] args)
            //Variable declaration and reading data from user
            int i1, i2;
            Console.WriteLine("Enter first number");
            i1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter second number");
            i2 = Convert.ToInt32(Console.ReadLine());
            for (int i = i1; i <= i2; i++)
                if (isPrimenumber(i))
                    Console.WriteLine("{0}", i);
            Console.ReadLine();
        //Logic and returning Output
        public static Boolean isPrimenumber(int input)
            for (i = 2; i < input; i++)</pre>
                if (input % i == 0)
                    break;
            if (i == input)
                return true;
            else
                return false;
        }
    }
}
```

```
F\N\f\DotN\f\DotN\etProjects\Prime Numbers in Range\Prime Numbers in Range\bin\Debug\Prime Numbers in Range.exe
Enter first number

Enter second number

28

29

3

5

7

11

13

17
```

Write a C # program to print FIBONACCI Series

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Fibonacci_series
    internal class Program
        static void Main(string[] args)
            int input;
            int v = 0, p = 1;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic and printing output
            Console.WriteLine("Fibbonaci series:");
            for (int i = 0; i < input; i++)</pre>
                Console.WriteLine(v);
                int c = v + p;
                v = p;
                p = c;
            Console.ReadLine();
        }
    }
}
```

OUTPUT

F:\NH\DotNetProjects\Fibonacci series\Fibonacci series\bin\Debug\Fibonacci series.exe

```
Enter a number

8
Fibbonaci series:
0
1
2
3
5
8
13
```

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_number
    internal class Program
        static void Main(string[] args)
            int input;
            int s, arm;
            int result = 0;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic and Output
            s = input;
            while (s > 0)
                arm = s % 10;
                s = s / 10;
                result = result + arm * arm * arm;
            if (result == input)
                Console.WriteLine("{0} is a Armstrong number", input);
                Console.WriteLine("{0} is not a Armstrong number", input);
            Console.ReadLine();
        }
    }
}
```

OUTPUT

F:\NH\DotNetProjects\Armstrong number\Armstrong number\bin\Debug\Armstrong number.exe

```
Enter a number
321
321 is not a Armstrong number
```

Write a C# program to print Armstrong number[Using Function]

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Armstrong_number
    internal class Program
        static void Main(string[] args)
            int input;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Printing Output
            if (isArmstrongnumber(input))
                Console.WriteLine("{0} is a Armstrong number", input);
                Console.WriteLine("{0} is not a Armstrong number", input);
            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;
        }
    }
}
```

```
 \blacksquare F:\NH\DotNetProjects\Armstrong\ number\Armstrong\ number\bin\Debug\Armstrong\ number.exe
```

```
Enter a number
153
153 is a Armstrong number
```

Write a C# program to print Armstrong numbers in range

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Armstrong_number
    internal class Program
        static void Main(string[] args)
            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;
        }
    }
```

```
F\NH\DotNetProjects\Armstrong number\Armstrong number\bin\Debug\Armstrong number.exe

Enter first number

Enter second number

800

Armstrong numbers between the given range:

1
153
370
371
407
```

Write a C# program to find Sum of digits of a 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)
            int input;
            int d, sum;
            int res = 0;
            Console.WriteLine("Enter a number");
            input = Convert.ToInt32(Console.ReadLine());
            //Logic
            d = input;
            while (d > 0)
                sum = d % 10;
                d = d / 10;
                res = res + sum;
            //Output
            Console.WriteLine("Sum of the digits of {0} is {1}", input, res);
            Console.ReadLine();
        }
    }
}
```

OUTPUT:

F:\NH\DotNetProjects\Sum of digits\Sum of digits\bin\Debug\Sum of digits.exe

```
Enter a number
56413
Sum of the digits of 56413 is 19
-
```

Write to C# program to print reverse of a given number

CODE

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

OUTPUT

F:\NH\DotNetProjects\Reverse number\Reverse number\bin\Debug\Reverse number.exe

```
Enter a number
1265
Reverse of 1265 is 5621
```

Write a C# program to check given number is Palindrome or not

CODE

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

OUTPUT

F:\NH\DotNetProjects\Palindrome or Not\Palindrome or Not\bin\Debug\Palindrome or Not.exe

```
Enter a number
1584
1584 is not a Palindrome
```

Write a C# program to print Swapping of two numbers using third variable

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Swapping_of_two__numbers
    internal class Program
        static void Main(string[] args)
            int a, b, s;
            Console.WriteLine("Enter first number");
            a = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Second number");
            b = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("The numbers {0} {1} before Swapping",a, b);
            Console.ReadLine();
            //Logic and Output
            s = a;
            a = b;
            b = s;
            Console.WriteLine("The numbers {0} {1} after Swapping", a, b);
            Console.ReadLine();
        }
    }
}
```

OUTPUT

Select F:\NH\DotNetProjects\Swapping of two numbers\Swapping of two num

```
Enter first number
26
Enter Second number
56
The numbers 26 56 before Swapping
The numbers 56 26 after Swapping
```

```
Program: 19
```

Write a C# Program to print Swapping of two numbers without using third variable

```
CODE
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Swapping_of_two__numbers
    internal class Program
        static void Main(string[] args)
            int input1, input2;
            Console.WriteLine("Enter first number");
            input1 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter Second number");
            input2 = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("The numbers {0} {1} before Swapping", input1,
           input2);
            Console.ReadLine();
            //Logic and Output
            input1 = input1 + input2;
            input2 = input1 - input2;
            input1 = input1 - input2;
            Console.WriteLine("The numbers {0} {1} after Swapping", input1,
           input2);
            Console.ReadLine();
        }
    }
}
```

OUTPUT

F:\NH\DotNetProjects\Swapping of two numbers\Swapping

```
Enter first number
8
Enter Second number
26
The numbers 8 26 before Swapping
The numbers 26 8 after Swapping
```

Write a C# program to print Right angled triangle(*) pattern

CODE

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Right_angled_Triangle
    internal class Program
        static void Main(string[] args)
            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++)</pre>
                for (j = 1; j <= i; j++)
                    Console.Write("* ");
                Console.WriteLine();
            Console.ReadLine();
        }
    }
}
```

OUTPUT

F:\NH\DotNetProjects\Right angled Triangle\Right a

```
No.of rows to be print
6
*
* *
* *
* * *
* * * *
* * * * *
* * * * *
```