**Calculate Factorial of a given number using For-loop**

**Module** Factorial\_ForLoop

 **Sub** main()

 **Dim** n, i, f **As** Integer

 Console.Write("Enter a Number: ")

 n = **CInt**(Console.ReadLine())

 f = 1

 **If** n < 0 **Then**

 Console.WriteLine("Factorial of negative number is not possible")

 **ElseIf** n = 0 **Or** n = 1 **Then**

 Console.WriteLine("Factorial of " + n.ToString() + " is 1")

 **Else**

 **For** i = 1 **To** n

 f \*= i

 **Next**

 Console.WriteLine("Factorial of " + n.ToString() + " is " + f.ToString())

 **End** **If**

 Console.ReadLine()

 **End** **Sub**

**End** **Module**

**Check whether the number is Palindrome or not**

**Module** Palindrome

 **Sub** Main()

 **Dim** n, r, sum, t **As** Integer

 Console.Write("Enter a Number:")

 n = **CInt**(Console.ReadLine())

 sum = 0

 t = n

 **While** n <> 0

 r = n **Mod** 10

 sum = sum \* 10 + r

 n = n \ 10

 **End** **While**

 **If** sum = t **Then**

 Console.WriteLine(t.ToString() + "is a Palindrome Number")

 **Else**

 Console.WriteLine(t.ToString() + "is NOT a Palindrome Number")

 **End** **If**

 **End** **Sub**

**End** **Module**

**Check whether the given number is Armstrong Number or not**

**Module** ArmstrongNumber

 **Sub** Main()

 **Dim** n, r, sum, t **As** Integer

 Console.Write("Enter a number= ")

 n = **CInt**(Console.ReadLine())

 sum = 0

 t = n

 **While** n <> 0

 r = n **Mod** 10

 sum += Math.Pow(r, 3)

 n = n \ 10

 **End** **While**

 **If** sum = t **Then**

 Console.WriteLine(t.ToString + " is a Armstrong Number")

 **Else**

 Console.WriteLine(t.ToString + " is NOT an Armstrong Number")

 **End** **If**

 Console.ReadLine()

 **End** **Sub**

**End** **Module**

**Find Sum using Class**

**Public** **Class** **Class1**

 **Dim** a, b **As** Integer

 **Sub** **New**()

 Console.Write("Enter 1st number : ")

 a = **CInt**(Console.ReadLine())

 Console.Write("Enter 2nd number : ")

 b = **CInt**(Console.ReadLine())

 **End** **Sub**

 **Sub** add()

 **Dim** c **As** Integer

 c = a + b

 Console.WriteLine()

 Console.WriteLine("Sum = " + c.ToString())

 **End** **Sub**

**End** **Class**

**Module** SumUsingClass

 **Sub** Main()

 **Dim** obj **As** **New** Class1

 obj.add()

 Console.ReadLine()

 **End** **Sub**

**End** **Module**

**Print Reverse of a number**

**Module** reverse

 **Sub** Main()

 **Dim** n, r **As** Integer

 Console.Write("Enter a number:")

 n = **CInt**(Console.ReadLine())

 **While** n <> 0

 r = n **Mod** 10

 Console.Write(r)

 n \= 10

 **End** **While**

 **End** **Sub**

**End** **Module**

**Leap Year Checking**

**Module** LeapYear

 **Sub** main()

 **Dim** y **As** Integer

 Console.Write("Enter Year:")

 y = **CInt**(Console.ReadLine())

 **If** y **Mod** 100 = 0 **Then**

 **If** y **Mod** 400 = 0 **Then**

 Console.WriteLine("The year is a Leap year")

 **Else**

 Console.WriteLine("The year is NOT a Leap year")

 **End** **If**

 **Else**

 **If** y **Mod** 4 = 0 **Then**

 Console.WriteLine("The year is a Leap year")

 **Else**

 Console.WriteLine("The year is NOT a Leap year")

 **End** **If**

 **End** **If**

 Console.ReadLine()

 **End** **Sub**

**End** **Module**