1. Write a Python Program to Find the Factorial of a Number?

**Ans: num = int(input("Enter a number: "))**

**factorial = 1**

**if num < 0:**

**print("Sorry, factorial does not exist for negative numbers")**

**elif num == 0:**

**print("The factorial of 0 is 1")**

**else:**

**for i in range(1,num + 1):**

**factorial = factorial\*i**

**print("The factorial of",num,"is",factorial)**

1. Write a Python Program to Display the multiplication Table?

**Ans: num = int(input("Display multiplication table of? "))**

**for i in range(1, 11):**

**print(num, 'x', i, '=', num\*i)**

1. Write a Python Program to Print the Fibonacci sequence?

**Ans: nterms = int(input("How many terms? "))**

**n1, n2 = 0, 1**

**count = 0**

**if nterms <= 0:**

**print("Please enter a positive integer")**

**elif nterms == 1:**

**print("Fibonacci sequence upto",nterms,":")**

**print(n1)**

**else:**

**print("Fibonacci sequence:")**

**while count < nterms:**

**print(n1)**

**nth = n1 + n2**

**n1 = n2**

**n2 = nth**

**count += 1**

1. Write a Python Program to Check Armstrong Number?

**Ans: num = int(input("Enter a number: "))**

**sum = 0**

**temp = num**

**while temp > 0:**

**digit = temp % 10**

**sum += digit \*\* 3**

**temp //= 10**

**if num == sum:**

**print(num,"is an Armstrong number")**

**else:**

**print(num,"is not an Armstrong number")**

1. Write a Python Program to Find Armstrong Number in an Interval?

**Ans: lower = int(input(“Enter lower Range = ”))**

**upper = int(input(“Enter upper Range = ”))**

**for num in range(lower, upper + 1):**

**order = len(str(num))**

**sum = 0**

**temp = num**

**while temp > 0:**

**digit = temp % 10**

**sum += digit \*\* order**

**temp //= 10**

**if num == sum:**

**print(num)**

1. Write a Python Program to Find the Sum of Natural Numbers?

**Ans: num = int(input(“Enter Number = ”))**

**if num < 0:**

**print("Enter a positive number")**

**else:**

**sum = 0**

**while(num > 0):**

**sum += num**

**num -= 1**

**print("The sum is", sum)**