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

**# Factorial of a given number**

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

**fact=num**

**if num >1:**

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

**fact\*=i**

**print("The factorial of {} is: {}".format(num,fact))**

**else:**

**print("Number is less than 1, please give a number greater than 1")**

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

**# To display the multiplication table**

**num=int(input("Enter the number greater than 0 to know its multiplication table: "))**

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

**print("{} x {} = {}".format(num,i, num\*i))**

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

**# To display Fibbonacci series**

**num=int(input("How many numbers do you want to be displayed: "))**

**l=[]**

**i=0**

**j=1**

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

**l.append(j)**

**i,j=j,i+j**

**print("The first {} numbers in a fibbonacci series are: {}".format(num,l))**

1. Write a Python Program to Check Armstrong Number?

**# To check whether a number is an Armstrong number or not**

**n=(input("Enter the number "))**

**result=0**

**length=len(n)**

**for i in range(0,length):**

**result+=int(n[i])\*\*length**

**if result==int(n):**

**print("The number {} is an Armstrong number".format(n))**

**else:**

**print("The number {} is not an Armstrong number".format(n))**

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

**# To look for all Armstrong numbers between 1 and 500**

**n=(input("Enter the number "))**

**if int(n)<1 or int(n)>500:**

**print("Enter number between 1 and 500")**

**else:**

**result=0**

**length=len(n)**

**for i in range(0,length):**

**result+=int(n[i])\*\*length**

**if result==int(n):**

**print("The number {} is an Armstrong number".format(n))**

**else:**

**print("The number {} is not an Armstrong number".format(n))**

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

**# Sum of natural numbers**

**num=int(input("For how many natural numbers you want to generate the sum: "))**

**sum=0**

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

**sum+=i**

**print("Sum of the first {} natural numbers is {}".format(num, sum))**