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

Ans: num = 10  
  
fact =1  
  
if num < 0:  
 print(**"factorial does not exist for negative numbers"**)  
elif num == 0:  
 print(1)  
else:  
 for i in range(1, num+1):  
 fact = fact \* i  
 print(**"The factorial "**, num, **"is"**, fact)

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

Ans: num = int(input(**"Enter your number for table multiplication"**))  
  
for i in range(1,11):  
 print(num, **'X'**, i, **'='**, num\*i)

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

*Ans:*  
*n =* int(input(**"Enter the value of 'n': "**))  
num = 0  
num1 = 1  
sum = 0  
count = 1  
print(**"Fibonacci Series: "**, end = **" "**)  
while count <= n:  
 print(sum, end = **" "**)  
 count += 1  
 num = num1  
 num1 = sum  
 sum = num1 + num

1. Write a Python Program to Check Armstrong Number?

Ans:

num = int(input(**"enter number for armstrong check: "**))  
# if we entered 153, 1634  
sume = 0  
temp = num  
num\_length = len(str(num))  
while temp > 0:  
 rem = temp % 10  
 sume += rem \*\* num\_length  
 temp //= 10  
  
if num == sume:  
 print(num,**"Armstrong number"**)  
else:  
 print(num,**"Not Armstrong number"**)

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

Ans:

startInterval = 100  
endInterval = 500  
  
for i in range(startInterval, endInterval+1):  
 num\_length = len(str(i))  
 sum = 0  
 temp = i  
  
 while temp > 0:  
 rem = temp % 10  
 sum += rem \*\* num\_length  
 temp //= 10  
  
 if i == sum:  
 print(i)

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

Ans:

num = int(input(**"enter a number : "**))  
  
sum =0  
if num<0:  
 print(**"enter positive number"**)  
else:  
 while num>0:  
 sum = sum +num  
 num = num -1  
  
print(**'sum of natural number: '**, sum)