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

#Program to Check Prime Number  
num=int(input("Enter number to get factorial : "))  
factorial=1  
if num<0:  
 print("Sorry factorial does not exist for negative number")  
elif num==0:  
 print("factorial of zero is 1 ")  
else:  
  
  
 for i in range(1,num+1):  
 factorial=factorial\*i  
 print(f"factprial of {num} is {factorial}")

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

#Display the multiplication Table?  
num=int(input("Enter no for multiplication : "))  
a=int(input("Enter no till where you want to multiply the number : "))  
for i in range(1,a+1):  
 print(num ,'X',i,"=",num\*i)

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

n=int(input("Enter the nth term : "))  
def fibnoci(a):  
 if n<0:  
 print("Invalid input")  
 elif n==0:  
 print("0")  
 elif n==1 or n==2:  
 print("1")  
 else:  
 if n>=3:  
 fibnocci=(n-1)+(n-2)  
 return fibnocci

1. Write a Python Program to Check Armstrong Number?

#Armstrong Number?  
  
num=int(input("Enter the number : "))  
  
order=len(str(num))  
sum=0  
  
temp=num  
while temp>0:  
 digit=temp%10  
 sum += digit\*\*order  
 temp //=10#Divide(floor) AND: Divide left operand with right operand and then assign the value(floor) to left operand  
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?

upper=int(input("Enter upper bound : "))  
#order=len(str(upper))  
for i in range(lower,upper+1):  
 sum=0  
 temp=i  
 while temp>0:  
 digit=temp%10  
 sum+=digit\*\*3  
 temp//=10  
 if i==sum:  
 print(i)

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

num=int(input("Enter a number to get sum: "))  
if num<0:  
 print("Enter positive number please")  
else:  
 sum=0  
 #while loop to iterate untill 0  
 while num>0:  
 sum+=num  
 num-=1  
 print(f"the sum is {sum}")