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

from functools import reduce  
  
def factorial(n):  
 ans = reduce(lambda a,b: a\*b,list(range(1,n+1)))  
 return ans

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

def multi\_table(n,l=1):  
 *"""Return tables from l to n, n > l"""* for i in range(1,11):  
 for j in range(l,n+1):  
 print(j\*i,end=" ")  
 print("\n")

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

def fibonacci(n):  
 a=1  
 b=1  
 for i in range(n+1):  
 print(a, end=" ")  
 a,b = b, a+b

1. Write a Python Program to Check Armstrong Number?

def armstrongNum(n):  
 lt\_of\_digits = list(map(int,str(n)))  
 n\_digits = len(lt\_of\_digits)  
 sm = 0  
 for i in lt\_of\_digits:  
 sm += i\*\*n\_digits  
  
 if sm == n:  
 return "YES"  
 else:  
 return "NO"

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

def armstrongNum(l, h):  
 flag = "NO"  
 for i in range(l, h + 1):  
 lt\_of\_digits = list(map(int, str(i)))  
 n\_digits = len(lt\_of\_digits)  
 sm = 0  
 #print(lt\_of\_digits, n\_digits)  
 for j in lt\_of\_digits:  
 sm += j \*\* n\_digits  
  
 if sm == i:  
 flag = "YES"  
 if flag == "YES":  
 print(i, end=" ")  
 flag = "NO"  
  
 return "\n Done! Thank you for using this"

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

from functools import reduce  
  
def find\_sum(l,h):  
 *"""Return sum of natural numbers from l (start) to h (last number)"""* sm = reduce(lambda a,b: a+b, list(range(l,h+1)))  
 return sm