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

num = int(input("Enter Number: "))

def fact(num):

if num == 1:

return 1

else:

return num \* fact(num-1)

print(fact(num))

>>> Enter Number: 5

120

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

num = int(input("Enter Number: "))

for i in range(1,11):

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

>>> Enter Number: 3

3 x 1 = 3

3 x 2 = 6

3 x 3 = 9

3 x 4 = 12

3 x 5 = 15

3 x 6 = 18

3 x 7 = 21

3 x 8 = 24

3 x 9 = 27

3 x 10 = 30

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

limit = int(input ("Limit: "))

# First two terms

n1 = 0

n2 = 1

count = 0

if limit <= 0:

print ("Invalid")

elif limit == 1:

print(n1)

else:

print ("Fibonacci sequence:")

while count < limit:

print(n1)

nth = n1 + n2

n1 = n2

n2 = nth

>>> Limit: 6

Fibonacci sequence:

0

1

1

2

3

5

1. Write a Python Program to Check Armstrong Number?

num = int(input("Enter Number: "))

if num == sum([int(x)\*\*len(str(num)) for x in str(num)]):

print(num , "is an Armstrong Number")

else:

print(num , "is Not A Armstrong Number")

>>> Enter Number: 153

153 is an Armstrong Number

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

low = int(input("From: "))

high = int(input("To: "))

def armstrong\_series(low,high):

if(low > high):

return "Invalid Input"

for num in range(low,high+1):

if num == sum([int(x)\*\*len(str(num)) for x in str(num)]):

print(num , "is an Armstrong Number")

else:

pass

armstrong\_series(low,high)

>>>

From: 100

To: 10000

153 is an Armstrong Number

370 is an Armstrong Number

371 is an Armstrong Number

407 is an Armstrong Number

1634 is an Armstrong Number

8208 is an Armstrong Number

9474 is an Armstrong Number

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

num = int(input("Get Sum Till: "))

def sum\_natural\_number(num):

result = 0

for i in range(1,num):

if(num<=0):

pass

return 0

else:

result += num

return result

res = sum\_natural\_number(num)

print("Sum of Natural Numbers till ",num," is:",res)

>>>Get Sum Till: 4

Sum of Natural Numbers till 4 is: 12