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

Ans: #Factorial

def fact(n):

f=1

i=n

while i!=1:

f=f\*i

i=i-1

return f

f1=fact(int(input("enter a number")))

print("factorial",f1)

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

Ans:

def mult\_table(n):

for i in range(1,11):

j=n\*i

#print(j)

print("{} \* {} = {}".format(n,i,j))

mult\_table(int(input("enter a number")))

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

Ans:

# 1,1,2,3,5,8

def fibonaci(n):

a=0

b=1

if n<0 or n==0:

return 0

elif n==1:

return b

else:

for i in range(1,n):

c=a+b

a=b

b=c

if i==1:

print(a)

print(b)

#return b

b=fibonaci(10)

#print(b)

1. Write a Python Program to Check Armstrong Number?

Ans:

def armstrong\_no(n):

s=0

l=len(str(n))

s1=n

while n!=0:

a=n%10

#print("a",a)

s=s+(a\*\*l)

print("s",s)

n=n//10

print("n",n)

if s==s1:

print("armstrong no",s)

return s

else:

print("no is not armstrong")

s1=armstrong\_no(int(input("enter no")))

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

Ans:

def armstrong\_no(n):

s=0

l=len(str(n))

s1=n

while n!=0:

a=n%10

#print("a",a)

s=s+(a\*\*l)

#print("s",s)

n=n//10

#print("n",n)

if s==s1:

print("armstrong no",s)

return s

else:

print("no is not armstrong")

for i in range(100,500):

s1=armstrong\_no(i)

#print(s1)

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

Ans: n=int(input("number"))

def natural\_sum(n):

s=0

for i in range(1,n+1):

s=s+i

return s

s=natural\_sum(n)

print("sum is ",s)