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

Ans1.

import logging as lg

lg.basicConfig(level = lg.INFO)

def fact():

try:

lg.info('Do the factorial')

n=int(input('Enter the number'))

m=1

for i in range(n):

m=n\*i

return m

except Exception as e:

return "Error occured: "+str(e)

fact()

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

Ans2.

import logging as lg

lg.basicConfig(level = lg.INFO)

def table():

try:

lg.info('Display Table')

n=int(input('Enter the number'))

m=1

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

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

except Exception as e:

return "Error occured: "+str(e)

table()

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

Ans3.

import logging as lg

lg.basicConfig(level = lg.INFO)

def fib():

try:

lg.info('Display fibonacci')

n=int(input('Enter the number'))

a=0

b=1

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

c=a+b

b=a

a=c

print(b)

except Exception as e:

return "Error occured: "+str(e)

fib()

1. Write a Python Program to Check Armstrong Number?

Ans4.

import logging as lg

lg.basicConfig(level = lg.INFO)

def arm():

try:

lg.info('check armstrong')

n=input('Enter the number : ')

m=n[::-1]

if n==m:

return 'Armstrong no.'

else:

return 'Not a Armstong no.'

except Exception as e:

return "Error occured: "+str(e)

arm()

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

Ans5.

import logging as lg

lg.basicConfig(level = lg.INFO)

def arm():

try:

lg.info('check armstrong')

l=int(input('Enter the low range : '))

h=int(input('Enter the high range : '))

for i in range(l,h):

j=str(i)

m=j[::-1]

if j==m:

print( 'Armstrong no.',i)

except Exception as e:

return "Error occured: "+str(e)

arm()

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

Ans6.

import logging as lg

lg.basicConfig(level = lg.INFO)

def nat():

try:

lg.info('sum of natural number')

j=0

n=int(input('Enter the number : '))

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

j=j+i

return 'The sum of natural number from 1 to {} = {}'.format(n,j)

except Exception as e:

return "Error occured: "+str(e)

nat()