1. Write a Python Program to Find the Factorial of a Number?
2. Write a Python Program to Display the multiplication Table?
3. Write a Python Program to Print the Fibonacci sequence?
4. Write a Python Program to Check Armstrong Number?
5. Write a Python Program to Find Armstrong Number in an Interval?
6. Write a Python Program to Find the Sum of Natural Numbers?

class assignment4:

def factorial(s):

try:

n=int(input("Enter a number to find the factorial "))

f=1

while (n>0):

f=f\*n

n=n-1

print("factorial=",f)

except Exception as e:

s.logger(e)

def importos(s):

import os

def logger(s,y):

import logging as lg

lg.basicConfig(filename="assignment4.txt",level=lg.DEBUG,format="%(asctime)s %(name)s %(levelname)s %(message)s")

lg.error(y)

def multiplication\_table (s):

try:

n=int(input("Enter a number to find its table "))

y=int(input("Enter a number to find table upto"))

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

print(n , " X ", i," = ",n\*i)

except Exception as e:

s.logger(e)

def fibonacci(s):

try:

a=1

b=1

n=int(input("Enter a number "))

for i in range(n):

print(b)

a=b-a

b=a+b

except Exception as e :

s.logger(e)

def armstrongnumber(s):

try:

n=input("Enter a number to check armstrong number")

c=0

for i in n:

a=int(i)

c=c+(a\*\*3)

if c == int(n):

print(n+" Is an armstrong number ")

else :

print(n+" Is not an armstrong number ")

except Exception as e :

s.logger(e)

def armstrong\_interval(s):

try:

n=int(input("Enter interval to check armstrong number"))

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

c=0

s=str(i)

for i in s:

a=int(i)

c=c+(a\*\*3)

if c == int(s):

print(s+" Is an armstrong number ")

else :

print(s+" Is not an armstrong number ")

except Exception as e:

s.logger(e)

def sum\_natural\_number(s):

try:

n=int(input("Enter a Natural number"))

s=0

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

s=s+i

print("Sum of the natural number is ",s)

except Exception as e:

s.logger(e)

def \_\_str\_\_(s):

return "This is Python Assignment4"