Python programming basic assignment 6:

Q1) def fibonacci(a):

if a <= 1:

return a

else:

return(fibonacci(a-1) + fibonacci(a-2))

b = int(input("enter number of sequence numbers required "))

if b <= 0:

print("enter a positive integer ")

else:

for i in range(b):

print(fibonacci(i))

Q2) def factorial(a):

if (a == 0 or a == 1):

return 1

else:

return (a\*factorial(a-1))

b = int(input("enter positive integer "))

print(factorial(b))

Q3) w = float(input("enter weight in kg "))

h = float(input("enter height in m "))

bmi = w/(h\*\*2)

print(bmi)

Q4) import numpy

a = int(input("enter positive number "))

print(numpy.log(a))

Q5) a = int(input("enter maximum natural number to get cube sum "))

b = 0

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

b = b + i\*\*3

print(b)