Assignment 1

* Question 1

Write a python program to print all Prime numbers in an interval -

#Program

lower = int(input("Enter lower range : "))

upper = int(input("Enter upper range : "))

for num in range(lower ,upper + 1):

if num > 1:

for i in range(2,num):

if (num % i) == 0:

break

else:

print(num)

* Question 2

Write a Python program for factorial of a number-

#program

num = int(input("Enter a number: "))

factorial = 1

if num < 0:

print("Sorry, factorial does not exist for negative numbers")

elif num == 0:

print("The factorial of 0 is 1")

else:

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

factorial = factorial\*i

print("the factorial of ", num ,"is" ,factorial)

* Question 3

Find sum of n numbers by using the while loop –

#Program

num= int(input("enter the number of terms : "))

if num < 0:

print("Enter a positive number")

else:

sum = 0

# use while loop to iterate until zero

while(num > 0):

sum += num

num -= 1

print("The sum is", sum)