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 : "))

print(“Prime numbers between” ,lower ,”and” ,upper+1):

**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 value of n: "))

hold = num

sum = 0

if num <= 0:

print("Enter a whole positive number!")

else:

while num > 0:

sum = sum + num

num = num - 1;

print("Sum of first", hold, "natural numbers is: ", sum)