Question 1

Write a Python program to print all Prime numbers in an Interval.

1. lo = int(input("Enter lower range: "))
2. up = int(input("Enter upper range: "))
4. **for** num **in** range(lo,up + 1):
5. **if** num > 1:
6. **for** i **in** range(2,num):
7. **if** (num % i) == 0:
8. **break**
9. **else**:
10. **print**(num)

Question 2

Write a Python Program for factorial of a number.

# Python program to find the factorial of a number provided by the user.

# change the value for a different result

num = 7

# To take input from the user

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

factorial = 1

# check if the number is negative, positive or zero

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 the sum of n numbers by using the while loop

# Sum of natural numbers up to num

num = 16

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)