```import random

def prime(x):

for i in range(2,x):

if(x%i==0):

return False

return True

a=int(input("Enter lower limit: "))

b=int(input("Enter upper limit: "))

x=random.randint(a,b)

print("\n")

print("Range is (%d,%d) and randomly picked number is %d"%(a,b,x))

if(x%2==0):

print("%d is an even number"%x)

else:

print("%d is an odd number"%x)

If x<0:

print(“%d is an Negative number"%x)

else:

print(“%d is an positive number"%x)

if(x==1):

print("1 is netiher a prime number nor composite number")

elif(prime(x)):

print("%d is a prime number"%x)

else:

print("%d is a composite number"%x)