**BTECH CSE (2022-2026)**

**BATCH: KOC49**

**Program Task:**

In this project you have to enter a range [A, B] and system will randomly pick any number from your given range and check the status of that given number.

The properties to be checked are:

1. Is that number is odd or even

2. Is that number is positive or negative number

3. Is that number is prime number or composite number.

After checking the status, you have to display all the properties followed by the randomly picked number.

For example

Range is (1,12) and randomly picked number is 10

Then the properties followed by this number are:

10 is a positive number

10 is an even number

10 is a composite number

(Student is free to decide the input and output layout for this mini project)

**Members:**

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**Program:**

import random

def prime(x):

    for i in range(2, x):

        if (x % i == 0):

            return False

    return True

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

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

x = random.randint(b, a)

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 == 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)

**Output:**

