

Name: Seshu Eeli

Section: K22MQ

Roll No: 31

Registration No: 12212746

Project No: 11

Project Name:

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.

```
import random
def findpn(f):
    if (f > 0):
        return f, "is a positive number"
    else:
        return f, "is a negative number"
def findeo(f):
    if (f % 2 == 0):
        return f, "is an even number"
    else:
        return f, "is an odd number"
def findpc(f):
    if(f>2):
        for i in range(2,f):
            c=0
            if(f%i==0):
                c+=1
            return f,"is a composite number"
        else:
            return f,"is a prime number"
    else:
        return f,"is a prime number"
a=int(input("Start"))
b=int(input("End"))
f=random.randrange(a,b)
print(findpn(f))
print(findeo(f))
print(findpc(f))
```

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
```

```
= RESTART: C:/Users/seshu/AppData/Local/Programs/Python/Python310/project--11.py
```

```
Start5
```

```
End7
```

```
(6, 'is a positive number')
(6, 'is an even number')
(6, 'is a composite number')
```

```
===== RESTART: C:/Users/seshu/AppData/Local/Program
```

```
Start2
```

```
End4
```

```
(3, 'is a positive number')
(3, 'is an odd number')
(3, 'is a prime number')
```