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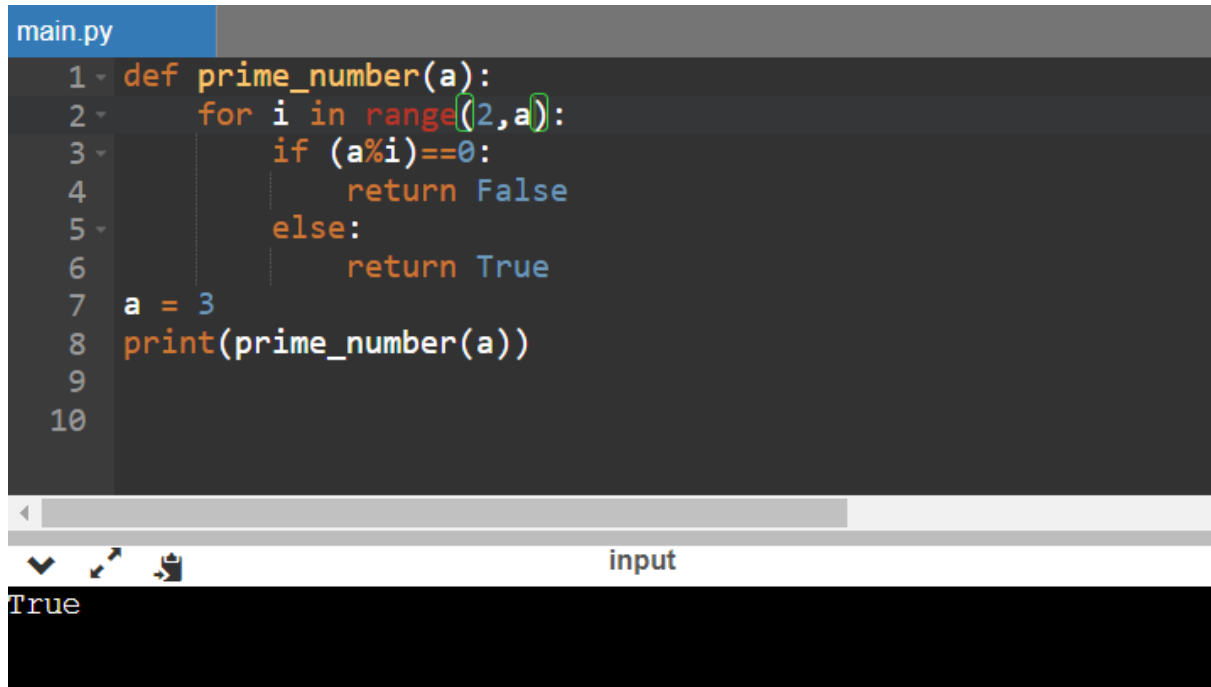VISHAGAN C SU - 917719IT110

ASHOK KUMAR CV - 917719IT012

ASSIGNMENT

1. Write a python program to test a given number is prime or not.

```python
def prime_number(a):
    for i in range(2,a):
        if (a%i)==0:
            return False
        else:
            return True
a = 3
print(prime_number(a))
```

input

```
True
```

2. Write a python program to generate odd numbers from m to n using while loop.

```python
list1 = [10, 21, 4, 45, 66, 93]
i = 0

while(i < len(list1)):
    if list1[i] % 2 != 0:
        print(list1[i], end = " ")
    i += 1
```

input

```
21 45 93
```

3. Write a python program to display prime number series up to given number.

main.py

```python
lower = int(input("Enter the lower: "))
upper = int(input("Enter the upper: "))
for n in range(lower, upper+1):
    if n>1:
        for i in range(2, n):
            if(n%i)==0:
                break
        else:
            print(n)
```

input

```
Enter the lower: 3
Enter the upper: 30
3
5
7
11
13
17
19
23
29
```

4. Write a python program to generate Fibonacci series.

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main.py

```python
a = 0
b = 1
print(a)
print(b)
for i in range(0, 5):
    c=a+b
    print(c)
    a=b
    b=c
```

input

```
0
1
1
2
3
5
8
```