NALAYA THIRAN ASSIGNMENT

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Batch Number: B8-2A4E

1. Program to print odd numbers between a given range.

Program:

```
start = int(input("Enter the start number: "))
end = int(input("Enter the end number: "))
while start <= end:
    if start % 2 != 0:
        print(start, end=" ")
    start += 1
```

Output:

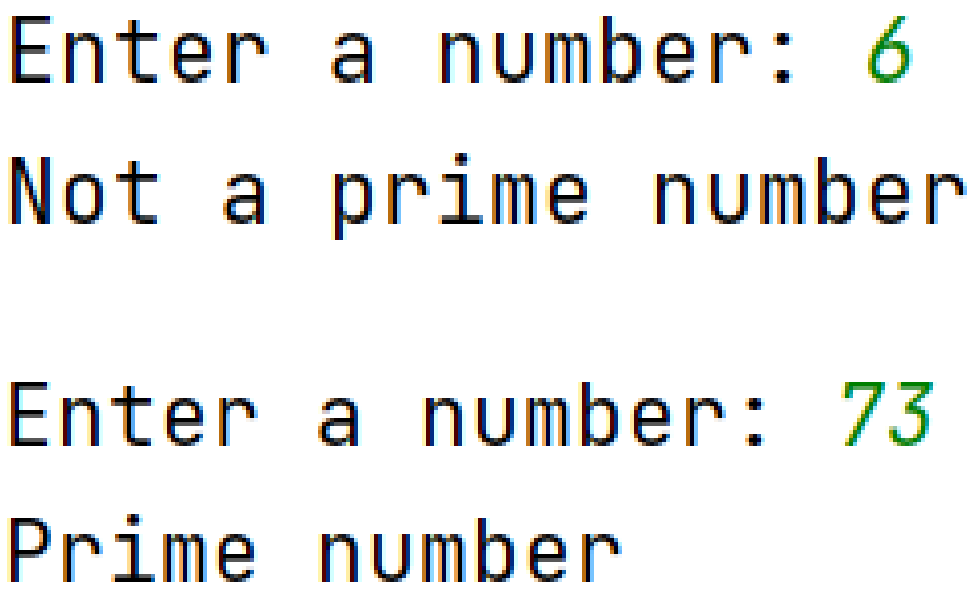
```
Enter the start number: 2
Enter the end number: 10
3 5 7 9

Enter the start number: 21
Enter the end number: 39
21 23 25 27 29 31 33 35 37 39
```

2. Program to check whether given number is prime or not.

Program:

```
num = int(input("Enter a number: "))
half = int(num/2)
isPrime = True
for i in range(2, half):
    if num % i == 0:
        isPrime = False
        print("Not a prime number")
        break
if isPrime:
    print("Prime number")
```

Output:



3. Program to print n first numbers in the Fibonacci series.

Program:

```
num = int(input("Enter the number: "))
n1, n2 = 0, 1
print("Fibonacci Series:", n1, n2, end=" ")
for i in range(2, num):
    n3 = n1 + n2
    n1 = n2
    n2 = n3
    print(n3, end=" ")
```

Output:

```
Enter the number: 6
Fibonacci Series: 0 1 1 2 3 5

Enter the number: 10
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34
```

4. Program to print n first numbers in the Fibonacci series.

Program:

```
start = int(input("Enter the start num: "))
end = int(input("Enter the end num: "))

for n in range(start, end + 1):
   if n > 1:
       for i in range(2, n):
           if (n % i) == 0:
               break
       else:
           print(n, end=" ")
```

Output:

```
Enter the start num: 2
Enter the end num: 8
2 3 5 7

Enter the start num: 5
Enter the end num: 16
5 7 11 13
```