

- 1) Write a python program to test a given number is prime or not:

```
number = int(input("enter the number -"))
s = int(number ** 0.5)
print(s)
for i in range(2, s):
    if number % i == 0:
        print("number is not prime")
        break
else:
    print("number is prime")
```

- 2) Write a python program to generate odd numbers from m to n using while loop:

```
m = int(input("enter the m :"))
n = int(input("enter the n :"))
if m % 2 == 0:
    i = m + 1
else:
    i = m
while i <= n:
    print(i)
    i += 2
```

- 3) Write a python program to display prime number series up to given numbers:

```
number = int(input("enter the number :"))
for i in range(2, number + 1):
    for j in range(2, i // 2):
        if i % j == 0:
            break
    else:
        print(i)
```

- 4) Write a python program to generate fibonacci series:

```
number = int(input("enter the number :"))
x = 0
y = 1
for i in range(number):
    ans = x + y
    x = y
    y = ans
    print(ans)
```