Program 1:

```
# program to check if the number is prime or not
n = int(input("Enter the number : "))

prime = True
for i in range(2, n):
    if(n % 2 == 0):
        print(n, " is not a prime number")
        prime = False
        break

if prime:
    print(n, " is a prime number")
```

Program 2:

```
# to generate odd numbers from m to n using while loop
m = int(input("Enter the value of m : "))
n = int(input("Enter the value of n : "))

while(m <= n):
    if(not m % 2 == 0):
        print(m)

    m = m + 1
```

Program 3:

```
# program to display prime number series up to given number.
a = int(input("Enter the min limit : "))
b = int(input("Enter the max limit : "))

for i in range(a, b+1):
    for j in range(2, a):
        if(i % j == 0):
            break

    else:
        print(i)
```

Program 4:

```
# program to generate Fibonacci series
n = int(input("How many terms ?"))
count = 0

if(n <= 0):
    print("Enter a positive integer")

elif(n == 1):
    print(1)

else:
    n1 = 0
    n2 = 1
    print("The fibonacci sequence is :")

    while(count <= n):
        print(n1)
        nth = n1 + n2
        n1 = n2
        n2 = nth

        count += 1
```

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