```
# Write Python 3 code in this online editor and run it.
# Program to display the Fibonacci sequence up to n-th term

nterms = int(input("How many terms? "))

# first two terms
n1, n2 = 0, 1
count = 0
if nterms <= 0:
   print("Please enter a positive integer")
elif nterms == 1:
   print("Fibonacci sequence upto",nterms,":")
   print(n1)
else:
   print("Fibonacci sequence:")
   while count < nterms:
       print(n1)
       nth = n1 + n2
       # update values
       n1 = n2
       n2 = nth
       count += 1
```

Run

```
How many terms? 12
Fibonacci sequence:
0
1
1
2
3
5
8
13
21
34
55
89
> 
```

```
# Number to be checked for prime
n = 5
if n > 1:
    for i in range(2, int(n/2)+1):
        if (n % i) == 0:
            print(num, "is not a prime
                number")
            break
    else:
        print(n, "is a prime number")
else:
    print(n, "is not a prime number")
```

Run

```
5 is a prime number
> 
```

```
lower = int(input("Enter the lower number :  "))
upper = int(input("Enter the upper number :  "))

print("Prime numbers between", lower, "and", upper, "are:")

for num in range(lower, upper + 1):
   # all prime numbers are greater than 1
   if num > 1:
       for i in range(2, num):
           if (num % i) == 0:
               break
       else:
           print(num)
```

```
Enter the lower number :  1
Enter the upper number :  30
Prime numbers between 1 and 30 are:
2
3
5
7
11
13
17
19
23
29
```

```
if __name__ == '__main__':
    N = int(input())

lst = []

for i in range(0,N):
    s = input().split()
    if s[0] == "append":
        lst.append( int(s[1]) )
    elif s[0] == "insert":
        lst.insert(int(s[1]) , int(s[2]))
    elif s[0] == "remove":
        lst.remove(int(s[1]))
    elif s[0] == "pop":
        lst.pop()
    elif s[0] == "index":
        lst.index(int(s[1]))
    elif s[0] == "count":
        lst.count(int(s[1]))
    elif s[0] == "sort":
        lst.sort()
    elif s[0] == "reverse":
        lst.reverse()
    elif s[0] == "print":
        print(lst)
```

```
12
insert 0 5
insert 1 10
insert 0 6
print
[6, 5, 10]
remove 6
append 9
append 1
sort
print
[1, 5, 9, 10]
pop
reverse
print
[9, 5, 1]
```

```
num = int(input(" Please Enter the Maximum Value : "))

number = 1

while number <= num:
    if(number % 2 != 0):
        print("{0}".format(number))
    number = number + 1
```

```
 Please Enter the Maximum Value : 12
1
3
5
7
9
11
```