Question 1 :

Write a Python program to find the first 20 non-even prime natural numbers.

In [70]:
```
for i in range(1,21):
    count=0
    for j in range(2,i):
        if i%j==0:
            count=count+1
            break;
    if count==0 and i%2!=0:
        print(i)
```

```
1
3
5
7
11
13
17
19
```

Question 2 :

Write a Python program to implement 15 functions of string.

In [115]:
```
str="Hello, LETSUPGRADE"
print(str[-3:-1])
print(str.endswith('l'))
print(str.startswith('H'))
print(str.isdigit())
print(str.isalpha())
print(str.isdecimal())
print(str.index("LETS"))
print(str.swapcase())
print(str.replace("He","le"))
print(str.join("hi"))
print(str.split("Hello", ))
print(str.rstrip())
print(str.ljust(3,"U"))
print(str.rjust(9,'P'))
```

```
AD
False
True
False
False
False
7
hELLO, letsupgrade
lello, LETSUPGRADE
hHello, LETSUPGRADEi
['', ', LETSUPGRADE']
Hello, LETSUPGRADE
Hello, LETSUPGRADE
Hello, LETSUPGRADE
```

Question 3:

Write a Python program to check if the given string is a Palindrome or Anagram or None of them. Displaythe message accordingly to the user.

In [119]:
```
str="mom"
s=str[::-1]
if s==str:
    print("palindrome")
str1="mom"
if sorted(str)==sorted(str1):
    print('Anagram')
```

```
palindrome
Anagram
```

Question 4:

Write a Python's user-defined function that removes all the additional characters from the string and convert it finally to lower case using built-in lower(). eg: If the string is "Dr. Darshan Ingle @AIML Trainer",then the output be "drdarshaningleaimltrainer".

In [12]:
```
def string3(s):
    s6=s.lower()
    s7=s6.replace("@","")
    s8=s7.replace(".","")
    s9=s8.replace(" ","")
    print(s9)
string3("Dr. Darshan Ingle @AIML Trainer")
```

```
drdarshaningleaimltrainer
```