In [1]:
```python
%%writefile prime_number
'''
It is a function to check prime number
'''
def prime(num_n):
    '''
    this is a prime function
    '''

    if num_n == 1:
        return False
    for i in range(2, num_n):
        if num_n%i == 0:
            return False
        return True
```

Overwriting prime_number

In [2]:
```python
! pip install pylint
```

Requirement already satisfied: pylint in c:\users\user\anaconda3\lib\site-pac
kages (2.5.3)
Requirement already satisfied: colorama; sys_platform == "win32" in c:\users
\user\anaconda3\lib\site-packages (from pylint) (0.4.3)
Requirement already satisfied: mccabe<0.7,>=0.6 in c:\users\user\anaconda3\li
b\site-packages (from pylint) (0.6.1)
Requirement already satisfied: astroid<=2.5,>=2.4.0 in c:\users\user\anaconda
3\lib\site-packages (from pylint) (2.4.2)
Requirement already satisfied: isort<5,>=4.2.5 in c:\users\user\anaconda3\lib
\site-packages (from pylint) (4.3.21)
Requirement already satisfied: toml>=0.7.1 in c:\users\user\anaconda3\lib\sit
e-packages (from pylint) (0.10.1)
Requirement already satisfied: wrapt~=1.11 in c:\users\user\anaconda3\lib\sit
e-packages (from astroid<=2.5,>=2.4.0->pylint) (1.11.2)
Requirement already satisfied: six~=1.12 in c:\users\user\anaconda3\lib\site-
packages (from astroid<=2.5,>=2.4.0->pylint) (1.15.0)
Requirement already satisfied: lazy-object-proxy==1.4.* in c:\users\user\anac
onda3\lib\site-packages (from astroid<=2.5,>=2.4.0->pylint) (1.4.3)

In [3]:
```python
! pylint "prime_number"
```

************* Module prime_number
prime_number.py:16:0: C0303: Trailing whitespace (trailing-whitespace)

Your code has been rated at 8.89/10 (previous run: 8.89/10, +0.00)

In [4]:
```python
print("Enter 'x' for exit.");
print("Enter the interval (starting and ending number): ");
start = input();
if start == 'x':
    exit();
else:
    end = input();
    lower = int(start);
    upper = int(end);
    for num in range(lower, upper+1):
        tot = 0;
        temp = num;
        while temp != 0:
            dig = temp % 10;
            tot += dig ** 3;
            temp //= 10;
        if num == tot:
            print(num);
```

```
Enter 'x' for exit.
Enter the interval (starting and ending number):
1
1000
1
153
370
371
407
```

In [ ]: