

```
In [1]: %%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]: ! pip install pylint
```

```
Requirement already satisfied: pylint in c:\users\user\anaconda3\lib\site-packages (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\lib\site-packages (from pylint) (0.6.1)
Requirement already satisfied: astroid<=2.5,>=2.4.0 in c:\users\user\anaconda3\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\site-packages (from pylint) (0.10.1)
Requirement already satisfied: wrapt~=1.11 in c:\users\user\anaconda3\lib\site-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\anaconda3\lib\site-packages (from astroid<=2.5,>=2.4.0->pylint) (1.4.3)
```

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

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

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```

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

```
In [4]: 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 [ ]: