Question 1 - Primes

Write a function to determine whether a given number is prime or not (divisible only by itself and 1). Use the Wikipedia definition of a prime numbers as a reference.

Solution: A number which is divisible by 1 and itself is called prime number

Function is_prime(number)

```
def is_prime(p):
    if p > 1:
        n = p // 2
        for i in range(2, n + 1):
            if p % i == 0:
                return False
        return True
    else:
        return False

number = 1011013

 #Test data:  number = 1011013, number = 10110133, number = 101101331
if is_prime(number):
    print str(number) + " is a prime number"
else:
    print str(number) + " is not a prime number”
```

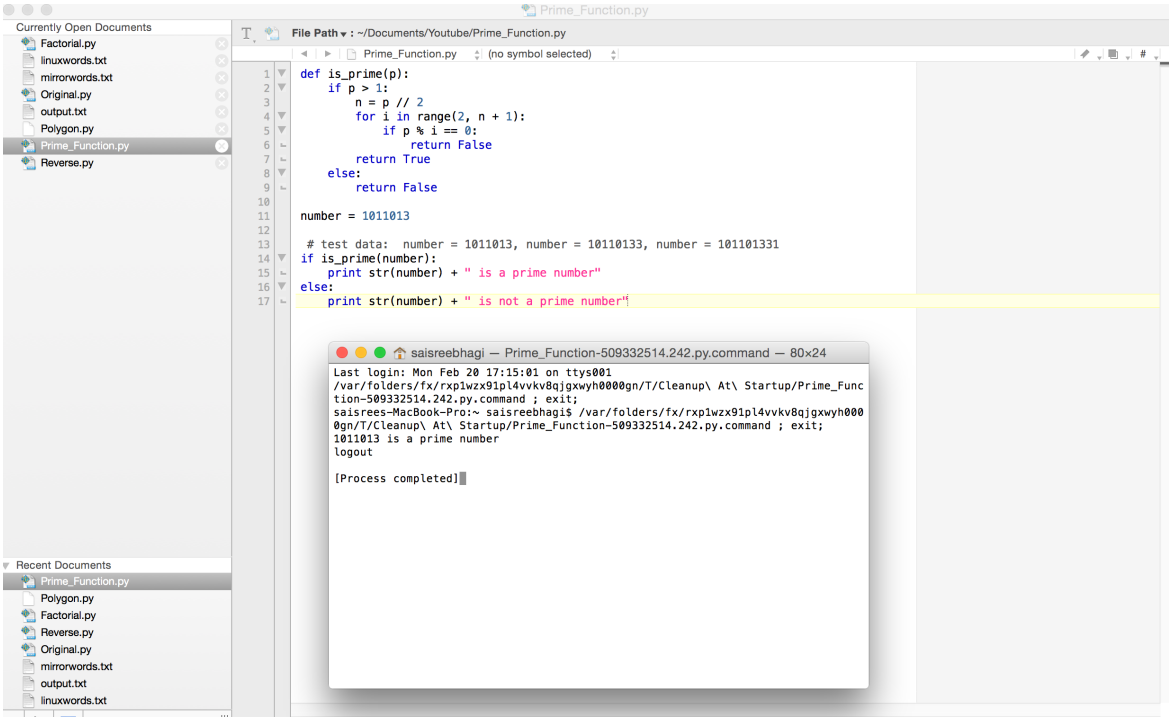
Reference:

https://en.wikipedia.org/wiki/Prime_number

Output

Screen Shots:

Case 1: Testing above function for a case when given number is prime



Case 2: Testing above function for a case when given number is not prime