8.WRITE A PROGRAM TO GENERATE ALL PRIME NUMBER USING RECURSION

```
PROGRAM:
def is_prime(num, divisor=2):
  if num <= 2:
     return num == 2
  if num % divisor == 0:
     return False
  if divisor * divisor > num:
     return True
  return is_prime(num, divisor + 1)
def generate_primes(start, end):
  if start <= end:
     if is_prime(start):
       print(start)
     generate primes(start + 1, end)
start_range = 1
end_range = 50
generate_primes(start_range, end_range)
TIME COMPLEXITY:O(sqrt(n))
INPUT:1,50
OUTPUT:
 PS C:\Users\surya\Desktop\fruit> & C:/Users/surya/AppData/Local/Programs/Python/Python312/python.exe c:/Users/surya/Desktop/fruit/Untitled-1.py
```