8. Write a program to generate all the prime numbers using recursion

PROGRAM:

```
def is_prime(n, i=2):
  if n <= 2:
    return True if n == 2 else False
  if n % i == 0:
    return False
  if i * i > n:
    return True
  return is_prime(n, i + 1)
def generate_primes(n):
  if n > 1:
    generate_primes(n - 1)
    if is_prime(n):
      print(n)
n=int(input("no.of terms: ")
generate_primes(n)
INPUT: no.of terms : 10
OUTPUT: 19
```

TIME COMPLEXITY :O(^n)