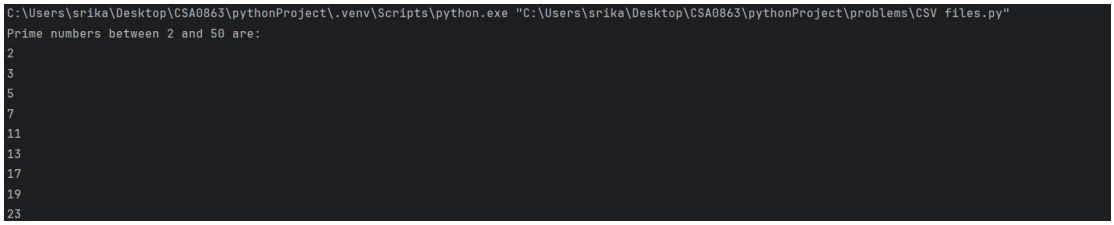
8. **Write a program to generate all the prime numbers using recursion**

Program:

```
def is_prime(n, divisor=2):
    if n <= 2:
        return n == 2
    if n % divisor == 0:
        return False
    if divisor * divisor > n:
        return True
    return is_prime(n, divisor + 1)

def generate_primes(start, end):
    if start > end:
        return
    if is_prime(start):
        print(start)
    generate_primes(start + 1, end)
start_num = 2
end_num = 50
print("Prime numbers between", start_num, "and", end_num, "are:")
generate_primes(start_num,end_num)
```

Output:



Time complexity:O(Nn^1/2)