def is\_prime(n, i=2):

if n <= 2:

return n == 2

if n % i == 0:

return False

if i \* i > n:

return True

return is\_prime(n, i + 1)

def generate\_primes(n, current=2):

if current <= n:

if is\_prime(current):

print(current, end=" ")

generate\_primes(n, current + 1)

# Example usage

limit = int(input("Enter the upper limit to generate prime numbers: "))

print("Prime numbers up to", limit, "are:")

generate\_primes(limit)