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

if n <= 1:

return False

if n == 2:

return True

if n % i == 0:

return False

if i \* i > n:

return True

return is\_prime(n, i + 1)

# Example usage

num = int(input("Enter a number: "))

if is\_prime(num):

print(f"{num} is a prime number.")

else:

print(f"{num} is not a prime number.")