9. Write a program to check a number is a prime number or not using recursion.

Aim: To check a number is a prime number or not using recursion

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Program:
def is_prime(num, i=2):
  if num <= 2:
    return num == 2
  if num % i == 0:
    return False
  if i * i > num:
    return True
  return is_prime(num, i + 1)
# Test the function
num = 29
if is_prime(num):
  print(f"{num} is a prime number")
else:
  print(f"{num} is not a prime number")
Output:
29 is a prime number
=== Code Execution Successful ===
```

Time complexity:-O(√n)