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8.write a program to generate all the prime reverse of a string using recursion
Aim: To generate all the prime reverse of a string using recursion
Program:
def is_prime(num):
  if num < 2:
    return False
  for i in range(2, int(num ** 0.5) + 1):
    if num % i == 0:
      return False
  return True
def reverse_string(string):
  if len(string) == 0:
    return []
  if is_prime(int(string)):
    return [int(string)]
  else:
    return reverse_string(string[1:]) + reverse_string(string[:-1])
input_string = "12345"
prime_reverses = reverse_string(input_string)
print("All Prime Reverses of the string:", prime_reverses)
Output:
All Prime Reverses of the string: [5, 3, 3, 23, 3, 23, 23, 2]
 === Code Execution Successful ===
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Time complexity:- $O(n \ Vn)$