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2.write a program to check the give number is Armstrong or not using recursive function
Aim: To check the give number is Armstrong or not using recursive function
Program: def order(n):
  return len(str(n))
def is_armstrong(n, order):
  if n == 0:
    return 0
  else:
    return (n % 10) ** order + is_armstrong(n // 10, order)
def is_armstrong_number(n):
  order_val = order(n)
  temp = is_armstrong(n, order_val)
  return n == temp
# Test the function with a number
number = 153
if is_armstrong_number(number):
  print(f"{number} is an Armstrong number")
else:
  print(f"{number} is not an Armstrong number")
Output:
153 is an Armstrong number
=== Code Execution Successful ===////////
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Time complexity:-O(n2)