*Reverse:

Explanation: -

The problem is to create a Java program that reverses a given string using a recursive approach. The program should process the string character by character, building a new string in reverse order. The final output should display the reversed version of the input string. Time Complexity: $-O(n^2)$

Space Complexity: - O(n) Start V +----+ Input String | Call reverseString(s) | Is s empty? Yes No | Return "" | Get last character | +----+

```
V
\mid Call\ reverseString(s.substring(0,\ s.length()\ -\ 1))\mid
| Concatenate lastChar with |
| the result of the recursive |
call
         V
  ----+
| Return result |
  Output Result |
     End
```