Ex – 02

1. Implement Factorial using recursion and draw a graph for the number of steps the algorithm takes to accomplish the task for different sizes of n.
2. Implement sum of even numbers and draw a graph for the number of steps the algorithm takes to accomplish the task for different sizes of n. Compare the graph with function n
3. Implement a recursive function that generates a new list every time (size of the list=n) and performs binary search with a random number. Do this for n times. Draw a graph to illustrate the number of counts required to accomplish the task for different sizes of n.