Write sample code segments for the following recurrence relations and plot the graphs to depict the number of steps for different sizes of n

- 1) T(n) = T(n-1) + 1
- 2) T(n) = T(n-1) + n
- 3) T(n) = T(n-1) + log(n)
- 4) T(n) = 2T(n-1) + log(n)
- 5) T(n) = T(n/2) + n
- 6) T(n) = T(n/2) + log(n)
- 7) T(n) = 2T(n/2) + log(n)