Game of Life

Overview:

Game of life is a sample simulation game where it is initially given a square grid of cells and will compute what the resulting life would look like after 'n' number of iterations.

Rules:

- 1. Any live cell with fewer than two live neighbors dies, as if caused by under-population.
- 2. Any live cell with two or three live neighbors lives on to the next generation.
- 3. Any live cell with more than three live neighbors dies, as if by overcrowding.
- 4. Any dead cell with exactly three live neighbors becomes a live cell, as if by reproduction.

Inputs:

- Square grid an array with its values either '0' or '1' (0 means dead, 1 means alive).
- Number of iterations 'n'.

Output:

- Count of live cells after nth iterations Example demonstration of how iteration in Game of Life looks like below:
- Initial Grid

|01110|

|00000|

|01110|

00000

1000001

• Result after 1 iteration

|00100|

|00000|

|00100|

|00100|

|00000|