**Rat In Maze Project**

**Idea :**

This project idea is to solve a rat in maze problem with implements a multithreading idea when solving the maze .

**What we actually did ?**

We think about how to create the maze with the specific size ,

Then we think about how the rat will move in the maze how the rat will behave int the maze ,how can we implements the multithreading methods .

Then :we implement the what we have decided to do in IDE

**Team Members with the Roles :**

1. Mostafa Gomaa :

Team leader who write the maze code and record the project video.

1. Mohamed Yossef:

Whi write the rat behaver .

1. Sameh Hessen:

Who implement threading .

1. Mostafa Ali:

Who collect resources to the team to do the project.

1. Ahmed Gamal:

Who write the Gui.

1. Ahmed Abdallah:

who write the Documentation.

**Code description :**

we have divided the project to 3 classes

1. Class to create the maze.

A screen shot of a computer program

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1. Class to solve the maze it’s name is (rat in maze) and this class contain the rat behavior and threading implements and it’s extend the maze class .

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1. Class for GUI to make the user enter the maze size and then display the original maze and the maze solution if it have it.

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