Student Details

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- **Reg. No: 2022359**
- **Program: BS Cybersecurity**
- **Semester: 5th**

Lab Task#02 Output:

```
Enter the grid size (e.g., 6 for a 6x6 grid): 6
Enter the number of obstacles (less than 34): 9
Enter the number of monsters (e.g., 3): 2

Initial Grid:

Grid with Path:
-------------------------
| S |   | X | M |   |   |
-------------------------
|   |   |   | X |   | X |
-------------------------
|   | X |   | M |   |   |
-------------------------
|   |   | X |   |   |   |
-------------------------
| X | X |   |   | X |   |
-------------------------
|   | X |   |   | G |   |
-------------------------

Searching for the escape path using A* algorithm...


Path to Escape the Maze:

Grid with Path:
-------------------------
| S | * | X | M |   |   |
-------------------------
|   | * | * | X |   | X |
-------------------------
|   | X | * | * | M |   |
-------------------------
|   |   | X | * | * |   |
-------------------------
| X | X |   |   | * | X |
-------------------------
|   | X |   |   | * | G |
-------------------------
```