

Fr. Conceicao Rodrigues College of Engineering Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400050

Department of Computer Engineering Academic Term II: 23-24

Class: B.E (Computer), Sem – VI Subject Name: Artificial Intelligence

Student Name: Sumit Sanjay Rai Roll No: 9570

Practical No:	2				
Title:	Tic Tac Toe game implementation by Magic Square Method				
Date of Performance:	05/02/2024				
Date of Submission:	12/02/2024				

Rubrics for Evaluation:

Sr. No	Performance Indicator	Excellent	Good	Below Average	Marks
1	On time Completion & Submission (01)	01 (On Time)	NA	00 (Not on Time)	
2	Logic/Algorithm Complexity analysis (03)	03(Corr ect)	02(Partial)	01 (Tried)	
3	Coding Standards (03): Comments/indention/Nam ing conventions Test Cases /Output	03(All used)	02 (Partial)	01 (rarely followed)	
4	Post Lab Assignment (03)	03(done well)	2 (Partially Correct)	1(submitte d)	
Total					

Signature of the Teacher:

Post Lab Assignment:

- 1. What is the relationship between tic-tac-toe and magic square?
- 2. What is a magic square of order n?

Name: Sumits . Rai FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING Roll no: 9570 Class: TECOMPS A Post Lob Assignment: Experiment -2. Q.1. What is the relationship between tic-tac-toe and magic square? Ans. 1. Tic-Toc-Toc and magic square are related through the arrangement of the game board. 2. In Tie-tac-Toe players alm to create winning combinations of their marks in rows, columns or diagonals. 3. A magic square is a grid where the sum of numbers in each row, column and diagonal is the same. 4. The numbers in a magic square can represent positions on the Tic-Tac-Toc grid. 5. By using the numbers of a magic square, we can easily identify winning combinations in tic-tac-toe. @. 2. What is a magic square of order n 9 Ans. 1. A magic square is a square grid containing numbers arranged in a way that each now, column and diagonal adds up to the same constant sum. 2. The order of a magic Square refers to the number of rows and columns it has. 3. For a magic square of order n, it contains n rows and n columns . 4. The numbers used in a magic square of order n range from 1 to n2. 5. The sum of each row , column, and dragonal in amagic square of order n is called the magic constant, denoted by M.

Formulai For calculating the magic constant (19) of a magic square of order n:

$$M = \frac{n \cdot (n^2 + 1)}{2}$$

where M -> Magic Constant.

n -> order of magic square