PROGRAM:---

```
GROUP A - 7 Write a python Program for magic square. A magic square is an
def generatesquare(n):
           magicsquare[int(i)][int(j)] = num
   print mat(magicsquare, n)
```

```
def isMagicSquare(mat, n):
```

```
for i in range(0, n): # A for loop for row entries
    a = []
    for j in range(0, n): # A for loop for column entries
        a.append(int(input("Enter element : ")))
    mat.append(a)
    if (isMagicSquare(mat, n)):
        print("Magic Square")
    else:
        print("Not a magic Square")

else:
    print("Wrong Choice Please Choose Another Option ")
    flag = 0
```

OUTPUT:---

/~~~~MENU~~~~~/

- 1. Generate Magic Square
- 2. Determine whether matrix is magic square or not
- 3. Exit

Enter your choice: 1

Enter the size of Magic square: 5

Magic Squre for n = 5

Sum of each row or column or diagonal i.e Magic Number is: 65

9 3 22 16 15

2 21 20 14 8

25 19 13 7 1

18 12 6 5 24

11 10 4 23 17

/~~~~MENU~~~~~/

1. Generate Magic Square

2. Determine whether matrix is magic square or not
3. Exit
Enter your choice: 2
Enter the size of Magic square : 5
Enter the elements rowwise:
Enter element : 1
Enter element : 2
Enter element : 3
Enter element : 4
Enter element : 5
Enter element : 6
Enter element : 7
Enter element : 8
Enter element : 9
Enter element : 10
Enter element : 11
Enter element : 12
Enter element : 13
Enter element : 14
Enter element : 15
Enter element : 16
Enter element : 17
Enter element : 18
Enter element : 19

Enter element : 20
Enter element : 21
Enter element : 22
Enter element : 23
Enter element : 24
Enter element : 25
Not a magic Square
/~~~~MENU~~~~~/
1. Generate Magic Square
2. Determine whether matrix is magic square or not
3. Exit
Enter your choice : 2
Enter the size of Magic square : 5
Enter the elements rowwise:
Enter element : 9
Enter element : 3
Enter element : 22
Enter element : 16
Enter element : 15
Enter element : 2
Enter element : 21
Enter element : 20
Enter element : 14
Enter element : 8

Process finished with exit code 0