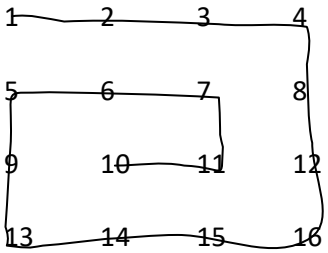
Career Advisory & Augmentation School

KIIT Deemed to be University, Bhubaneswar

Coding Assignment-4

Q1. Program to print the elements of a 2d array in the form of a matrix in spiral form.

Input:



Output: 1 2 3 4 8 12 16 15 14 13 9 5 6 7 11 10

Q2. Program to find the saddle point coordinates in a given matrix. A saddle point is an element of the matrix, which is the minimum element in its row and the maximum in its column.

Input: Matrix[3][3] -

1	2	3
4	5	6
7	8	9

Output: 7

Q3. Program to rotate a matrix by 90 degrees clockwise.

Input: Matrix[3][3]

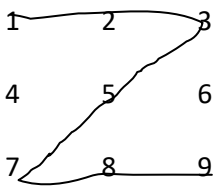
1	2	3
4	5	6
7	8	9

Output:

7	4	1
8	5	2
9	6	3

Q4. Program to print the sum of elements in the Zigzag sequence in a given matrix.

Input: Matrix[3][3]



Output: 1+2+3+5+7+8+9 = 35

Q5. Given a matrix, the task is to print the boundary elements of the matrix and display their sum.

Input: Matrix[3][3] 1 2 3

4 5 6

7 8 9

Output: 1 2 3

4 6

7 8 9

Sum = 1+2+3+6+9+8+7+4 = 40