**Group A:Assignment No 3**

Write a Python program that determines the location of a saddle point of matrix if one exists. An m x n matrix is said to have a saddle point if some entry a[i][j] is the smallest value in row i & the largest value in j.

def findSaddlePoint(mat, n):

for i in range(n):

min\_row = mat[i][0];

col\_ind = 0;

for j in range(1, n):

if (min\_row > mat[i][j]):

min\_row = mat[i][j];

col\_ind = j;

k = 0;

max\_col=[0][0];

for k in range(n):

if (max\_col< mat[k][col\_ind]):

max\_col=mat[k][col\_ind]

if (max\_col==min\_row):

print("Value of Saddle Point ",min\_row);

return True;

return False;

mat = [[1, 2, 3],

[4, 5, 6],

[10, 15, 9]];

n = 3;

if (findSaddlePoint(mat, n) ==

False):

print("No Saddle Point");