**Zeal College of Engineering and Research**

**Subject: DSL**

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**Group A: Practical No: 03**

**Program Statement**:

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 and the largest value in j.

**Code:**

#To Get the saddle point

c = []

n = int(input("Enter the Number of Rows:")) # For input of rows

m = int(input("Enter the Number of Columns:")) #For input of column

#Taking the input of Element

for i in range(0,n):

t=[]

for j in range(0,m):

b = int(input("Enter the Element:"))

t.append(b)

c.append(t)

#Display the Element

for i in range(n):

for j in range(m):

print(c[i][j], end=" ")

print()

#Making the Saddle Point

for i in range(m):

row\_min = c[i][0]

col\_i = 0

for j in range(n):

if (row\_min > c[i][j]):

row\_min = c[i][j]

col\_i = j

k = 0

for k in range(n):

if (row\_min > c[i][j]):

break

k += 1

#Printing the saddle point

if (k == n):

print("Value of Saddle Point is",row\_min)

**Output (Screenshot):**

