**Web Mining (CSE3024)**

**Lab Assignment 5**

Name: **Kritika Mishra**

Registration Number: **16BCI0041**

Slot: L15+L16

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Question: **Write a python program to find the ranks for the given graph.**



Code:

# -\*- coding: utf-8 -\*-

"""

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@author: Kritika Mishra

"""

import numpy as np

def page\_rank(d1,x):

i=0

d=np.array([d1])

g = np.array([[0,0.5,0.5,0,0,0],

[0,0,0,0,0,0],

[0.67,0.67,0,0,0.67,0],

[0,0,0,0,0.5,0.5],

[0,0,0,0,0,1],

[0,0,0,1,0,0]])

gt =g.transpose()

d=[d1]\*len(gt)

for i in range(x):

l=np.matmul(gt,d)

d=l

print(l)

print("d= 0.85 and 7 iterations\n")

page\_rank(0.85,7)

print("\nd= 0.85 and 100 iterations\n")

page\_rank(0.85,100)

print("\nd= 0.85 and 1000 iterations\n")

page\_rank(0.85,1000)

print("\nd= 0.86 and 10 iterations\n")

page\_rank(0.86,10)

print("\nd= 0.86 and 100 iterations\n")

page\_rank(0.86,100)

print("\nd= 0.86 and 1000 iterations\n")

page\_rank(0.86,1000)

Output:

