import networkx as nx

import matplotlib.pyplot as plt

G=nx.DiGraph()

G.add\_edge(‘UUNomor10Tahun1995’,’UUD1945’)

G.add\_edge(‘UUNomor10Tahun1995’,’UUNomor17Tahun2006’)

G.add\_edge(‘UUNomor28Tahun1999’,’UUD 1945’)

G.add\_edge(‘UUNomor36Tahun2008‘,’UUD 1945’)

G.add\_edge(‘UUNomor36Tahun2008’,’UUNomor6Tahun 1983’)

G.add\_edge(‘UUNomor36Tahun2008’,’UUNomor67Tahun 1983’)

G.add\_edge(‘UUNomor26Tahun2009’,’UUNomor41Tahun 2008’)

G.add\_edge(‘UUNomor2Tahun2018’,’UUNomor5Tahun2014’)

def main():

G = nx.read\_edgelist('Cit-HepTh.txt', create\_using=nx.DiGraph())

deg = dict(G.in\_degree()) #Returns a dictionay, with key as nodes and indegrees as values.

pr = nx.pagerank(G)

pr\_values = []

for i in deg.keys():

pr\_values.append(pr[i])

plt.plot(deg.values(), pr\_values, 'ro', markersize = 3)

plt.xlabel('Indegree value of the nodes')

plt.ylabel('PageRank value of the nodes')

plt.show()

main()