Page Rank

Point Distribution Method

```
import networkx as nx
import random
import matplotlib.pyplot as plt
def add edges():
  nodes = list(G.nodes())
  for s in nodes:
       for t in nodes:
           if s != t:
               r = random.random()
                   G.add edge(s,t)
def assign point(G):
  nodes = list(G.nodes())
  p = []
  for each in nodes:
       p.append(100)
def distribute points(G,points):
  new points = []
       new points.append(0)
   for n in nodes:
       out = list(G.out edges(n))
       if len(out) == 0:
           new points[n] += points[n]
           share=points[n]/len(out)
```

```
new points[tar] = new points[tar] + share
   return new points
def keep_distributing(points,G):
      new_point = distribute_points(G,points)
      print(new point)
      points = new point
      stop = input("press # for stop or press anyother key for continue : ")
       if stop == "#":
   return new point
G = nx.DiGraph()
G.add nodes from([i for i in range(1,11)])
G = add edges()
nx.draw(G, with labels=True)
plt.show()
points = assign point(G)
final points = keep_distributing(points,G)
```