<pre>In [32]:</pre> In [33]:	<pre>from kafka import KafkaProducer import json import pandas as pd import random import numpy as np import time</pre>
In [33]:	<pre>move_li=['+','-'] n=100 df=pd.read_csv(r"C:\Users\briju\Desktop\Mtech\Assignment\Data\pizza_customers.csv",dtype=str) producer=KafkaProducer(bootstrap_servers={'localhost:9092'},api_version=(0,10,1)) def dist(p1,p2):</pre>
In [34]:	<pre>squared_dist = np.sum((p1-p2)**2, axis=0) dist = np.sqrt(squared_dist) return dist def person_loc_generator(a): initial_loc=np.array([0,0]) prev_loc=np.array([1,1]) status_n=0 status_f=0 for i in range(n):</pre>
	<pre>for i in range(n): val=random.randint(1,4) prev_loc=np.ndarray.copy(initial_loc) move_x=move_li[random.randint(0,1)] move_y=move_li[random.randint(0,1)] print(move_x,move_y) if move_x=='+' and move_y=='-': initial_loc[0]=initial_loc[0]+val initial_loc[1]=initial_loc[1]-val elif move_x=='+' and move_y=='+': initial_loc[0]=initial_loc[0]+val initial_loc[0]=initial_loc[0]+val initial_loc[1]=initial_loc[0]+val initial_loc[1]=initial_loc[1]+val</pre>
	<pre>elif move_x=='-' and move_y=='+': initial_loc[0]=initial_loc[0]-val initial_loc[1]=initial_loc[1]+val elif move_x=='-' and move_y=='-': initial_loc[0]=initial_loc[0]-val initial_loc[1]=initial_loc[1]-val #print(prev_loc,initial_loc) prev_loc_dist=dist(prev_loc,pizza_center_loc) new_loc_dist=dist(initial_loc,pizza_center_loc) print(prev_loc_dist,new_loc_dist)</pre>
	<pre>if prev_loc_dist>new_loc_dist and new_loc_dist<50: status_n=status_n+1 if status_n<2: print("offer can be generatedas person is coming near ") b={'id':str(a),'dir':'N'} producer.send("test-topic", json.dumps(b).encode('utf-8')) if prev_loc_dist<new_loc_dist and="" new_loc_dist="">50: status_f=status_f+1 if status_f<2 and status_n>1: b={'id':str(a),'dir':'F'} producer.send("test-topic", json.dumps(b).encode('utf-8'))</new_loc_dist></pre>
In [35]:	<pre>print("bigger offer can be generated as person is going away") time.sleep(0.5) if status_f>1 and status_n>1: break #below code will generate offer if person will come near pizza store and if its going away from pizza for i in range(10):</pre>
	a=df.at[random.randint(0,200),"CustomerID"] person_loc_generator(a)

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