# Problem 13 - web traffic for the five given city

# Note: Did not get enough time for this question

import random

# Function to create a single record randomly

def returnrecord():

timeofday = ['morning', 'noon', 'evening', 'night']

userID = random.randint(1,30)

timeday = random.choice(timeofday)

timespent = random.randint(1,100)

record = [userID, timeday, timespent]

return record

cities\_list =['Pune', 'Mumbai', 'Hyderabad', 'Delhi', 'Banglore']

# timeofday = ['morning', 'noon', 'evening', 'night']

# These list will contain all the records in three attributes

# [1. (1-30) - 2. timeofday, - 3. timespent]

pune\_enteries = []

mumbai\_enteries =[]

hyderabad\_enteries =[]

delhi\_enteries =[]

banglore\_enteries =[]

# To enter 100 enties randomly using a loop

for i in range(1,100):

pune\_enteries.append(returnrecord())

mumbai\_enteries.append(returnrecord())

hyderabad\_enteries.append(returnrecord())

delhi\_enteries.append(returnrecord())

banglore\_enteries.append(returnrecord())

# Using a dictionary to store all the entries as per the city name

cities\_records ={'Pune':pune\_enteries, 'Mumbai': mumbai\_enteries, 'Hyderabad':hyderabad\_enteries, 'Delhi' :delhi\_enteries, 'Banglore': banglore\_enteries}

# This is to test if it is working properly

# get\_initial\_city = input("Enter city whose records you want to see: ")

# get\_number = int(input("enter the number of records (from 1 to 99): "))

# for i in range(1,get\_number):

# print(cities\_records[get\_initial\_city][i])

get\_city = input("Enter the name of the city ")

get\_time = input("Enter the time at which the site is showed: ")

# Second condition to find city with hieghest traffic

def find\_city(get\_time):

int count\_records =[[0,0,0,0],[0,0,0,0],[0,0,0,0],[0,0,0,0],[0,0,0,0]]

#for five cities

for i in range(99):

# For pune

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["morning"]:

count\_records[0][0] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["noon"]:

count\_records[0][1] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["evening"]:

count\_records[0][2] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["night"]:

count\_records[0][3] = count\_records[0][0] +1

# For mumbai

if cities\_records['Mumbai'][i][get\_time] == cities\_records['Mumbai'][i]["morning"]:

count\_records[1][0] = count\_records[0][0] +1

if cities\_records['Mumbai'][i][get\_time] == cities\_records['Mumbai'][i]["noon"]:

count\_records[1][1] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["morning"]:

count\_records[0][0] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["noon"]:

count\_records[0][1] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["evening"]:

count\_records[0][2] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["night"]:

count\_records[0][3] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["morning"]:

count\_records[0][0] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["noon"]:

count\_records[0][1] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["evening"]:

count\_records[0][2] = count\_records[0][0] +1

if cities\_records['Pune'][i][get\_time] == cities\_records['Pune'][i]["night"]:

count\_records[0][3] = count\_records[0][0] +1





