Joyce Woznica  
IST 652, Week 3

Activity 3.2: NBA Program

Code:

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﻿# Week 3

# Week 3 Activities

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# Class: IST 652

#

# This program reads a file and prints the lines and creates a list of items on the line

# open the file for reading (in the same directory as the program)

filePath = '/Users/joycewoznica/Syracuse/IST652/Activities/Week 3/NBA-Attendance-1989.txt'

# open and read the file

nbaFile = open(filePath,'r')

# Create a list object with all the lines from the file

nbaList = []

for line in nbaFile:

textline=line.strip()

items = textline.split()

nbaList.append(items)

# Get length for averages

totalTeams = len(nbaList)

# Create a list object for all the attendances in the file

attendances = []

for line in nbaList:

attendances.append(int(line[1]))

# Sum all the Attendances

totalAtt = sum(attendances)

# Get average

avgAtt = totalAtt/totalTeams

# round to a whole number

print ('Average Attendance was {:.0f}'.format(avgAtt))

# Gather the total price for all tickets looping through List

team, att, price = nbaList[0]

# Blank list for Price

prices = []

for (team, att, price) in nbaList:

prices.append(float(price))

avgPrice = sum(prices) / len(prices)

avgPrice = sum(prices) / totalTeams

# round to 2 decimal points

print("Average Ticket Price was ${:.2f}".format(avgPrice))

# Gather Highest Attendance and Ticket Price

maxAtt = max(attendances)

maxPrice = max(prices)

# Blank list for Teams

teams = []

for (team, att, price) in nbaList:

teams.append(team)

# Max attendance by Team

maxTeamAtt=teams[attendances.index(maxAtt)]

maxTeamPrice = teams[prices.index(maxPrice)]

print ("Team with highest attendance was " + maxTeamAtt + " with attendance of ", maxAtt)

print ("Team with the highest price was " + maxTeamPrice + " with a high price of: ${:.2f}".format(maxPrice))

Output:

﻿﻿﻿﻿﻿﻿runfile('/Users/joycewoznica/Syracuse/IST652/Activities/Week 3/Joyce\_Woznica\_Week3\_3.2.py', wdir='/Users/joycewoznica/Syracuse/IST652/Activities/Week 3')

﻿Average Attendance was 15711

Average Ticket Price was $18.57

Team with highest attendance was Minnesota with attendance of 26160

Team with the highest price was LA\_Lakers with a high price of: $29.18