Read a CSV file to a 2D list

# Code snippet .

Reads a CSV file and copies the data into a 2D list whilst removing the additional, unwanted white space and the commas from each line.

| 1  2  3  4  5  6  7  8  9  10 | file = open("players.csv", "r")  data = []  for line in file:  line = line.strip() # strips the line space \n  line = line.split(",") # splits the line at the comma  data.append(line)  file.close() |
| --- | --- |

Challenge 1 .Ask for a player name and return the score

**Preparation**

Make sure that you have saved the players.csv file in the same place as your Python file. You can find the file at:

**NOTE TO TEACHER — ENTER THE LOCATION HERE**

**Challenge**

Create a program that performs the following:

* Reads data from the players.csv file
* Asks the user to enter a player name
* Displays the score for that player

**Example output**

| Enter a player name:  DinoFish  The last score for DinoFish was 0  >>> |
| --- |

**Hint:** The in operator might help you with this program

**Test your code then enter it below:**

**Note for assessor: this is just one example, there will be many variations from learners.**

| file = open("players.csv", "r")  data = []  for line in file:  line = line.strip()  line = line.split(",")  data.append(line)  file.close()  print("Enter a player name:")  player = input()  playerlocation = ""  for item in data:  if player in item:  location = (data.index(item))  score = data[location][1]  for item in data:  name = item[0]  if name == player:  score = item[1]  print(f"The last score for {player} was {score}") |
| --- |

# Challenge 2 .Investigate weather data

**Preparation**

Make sure that you have saved the weatherdata.csv file in the same place as your Python file. You can find the file at:

**https://drive.google.com/file/d/1-v0HmRNs5\_mmaikaRLhkvdYI3YNQai9N/view?usp=sharing**

**Challenge**

Create a program that performs the following:

* Reads the weatherdata.csv file
* Displays highest recorded rainfall along with the data and timestamp

**Example input/output**

| Highest recorded rainfall: 28.82 on 04/10/2019 17:30:00  >>> |
| --- |

**Tip:** You might want to take a look at the CSV file and see how the data has been arranged before planning your program.

**Test your code then enter it below:**

**Note for assessor: this is just one example, there will be many variations from learners.**

| file = open("weatherdata.csv", "r")  data = []  for line in file:  line = line.strip()  line = line.split(",")  data.append(line)  file.close()  datalength = len(data)  for x in range(1, datalength): # range ignores the header row  rainfall = data[x][5]  data[x][5] = float(rainfall)  highestrainfall = 0  for x in range(1, datalength): # range ignores the header row  if data[x][5] > highestrainfall:  highestrainfall = data[x][5]  timestamp = data[x][0]  print(f"Highest recorded rainfall: {highestrainfall} on {timestamp}") |
| --- |

# Explorer task . Read players.csv to a dictionary

Using the CSV file from the first challenge, add the data to a list of dictionaries instead of a 2D list.