Read from CSV files

# Code snippet .

Reads a CSV file and copies the data into a list whilst removing the additional, unwanted white space

| 1  2  3  4  5  6 | file = open("playernames.csv", "r")  data = []  for line in file:  line = line.strip()  data.append(line)  file.close() |
| --- | --- |

Challenge 1 .Find the highest and the lowest

**Preparation**

Make sure that you have saved the scores.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 scores.csv file
* Appends the data to a list
* Displays the highest score
* Displays the lowest score

**Example output**

| The highest score is: 20  The lowest score is: 2  >>> |
| --- |

**Tip:** It might help to remove the first entry “Scores” from the list. Go back to Lesson 30 – List methods to remind yourself of how to do this.

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

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

| file = open("scores.csv", "r")  data = []  for line in file:  line = line.strip()  data.append(line)    file.close()  data.pop(0) # removes the header row  datalength = len(data)  for x in range(datalength):  data[x] = int(data[x])    data.sort()  highest = data[datalength-1]  lowest = data[0]  print(f"The highest score is: {highest}")  print(f"The lowers score is: {lowest}") |
| --- |

# Challenge 2 .List entries that begin with a specified character

**Preparation**

Make sure that you have saved the names.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:

* Prompts the user to enter the first letter of the name that they wish to search for
* Searches a list for all names beginning with the specified letter
* Displays a list of names that begin with the specified letter

**Example input/output**

| Enter the first letter of the name:  R  Rebecca  Ranjit  Ronald  >>> |
| --- |

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

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

| file = open("names.csv", "r")  data = []  for line in file:  line = line.strip()  data.append(line)    file.close()  data.pop(0)  print("Enter the first letter of the name:")  letter = input()  names = []  for item in data:  if item[0] == letter:  names.append(item)  for item in names:  print(item) |
| --- |

# 

# Explorer task . Work out the average score

Using the CSV file from the first challenge, work out the users’ average score.