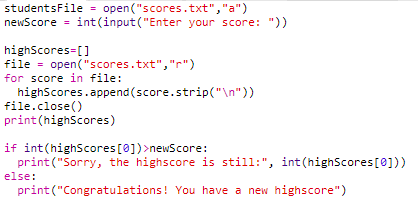
**Handout 2: File Reading Programming Activity**

Look at the code that has been shared with you – [Code link](https://trinket.io/library/trinkets/4d007299bb)



**Predict**

In the box predict what you think the code will do when run

|  |
| --- |
| Ask you for a score and tell you if it is higher than the existing high score |

**Run**

Now run the code, what did it do?

|  |
| --- |
| Depending on the score you enter it will tell you if it is a highscore or not |

**Investigate**

Look through the code and investigate the answer to these questions

1. Look at the values in the text files. Try typing in a higher score than the highest score. What happens?

|  |
| --- |
| It displays “Congratulations! You have a new highscore” |

2. What if the value is lower than the high score? Or equal?

|  |
| --- |
| It displays “Congratulations! You have a new highscore” if it is equal and “Sorry the highscore is still 35” if it is lower. |

3. What does **item.strip(“\n”)** do on Line7?

|  |
| --- |
| Removes the newline characters from the end of the string |

4. On Line5 change “r” to “a”. Run the program - what happens?

|  |
| --- |
| There is a Python interpreter error(run time) because you cannot open an item for append and then read it. |

**Modify**

Using the code make the modifications below. Run it after each task to make sure it works

1. Can you work out the average score and let the user know if they were above average
2. Add the ability to rewrite the file with the new score in the correct position
3. Challenge: Give the top 3 scores with their ranking
4. Mega Challenge: Add an option for the user to view all the highscores presented with their ranking

Potential solution given [here](https://trinket.io/library/trinkets/4eaf893717)

**Make**

Taking what you have learnt so far tackle this new problem

Write your own game of questions and answers on a topic of your choice.

**No answer supplied for Make as it's written around an idea you prefer to work on.**