**List of references and sources for assignment 2**

**General**

The basic structure of the code with a particles created as a class and then iterated through class methods to move them was similar to the code structure from Assignment 1, the agents based model.

Certain sections of code were copied and adapted from assignment 1 (identified in comments in the code).

Where snippets of code are copied and adapted from websites these have also been identified in comments in the code.

**Course notes and lectures**

The primary source for this work was the online notes and lectures for the course which can be found here.

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**Books**

Chan, J. 2017. *Learn Python In One Day and Learn It Well*. Great Britain. CreateSpace.

Harwani, B.M. 2012. *Introduction to Python Programming and Developing GUI Applications with PyQT.* Boston. Cengage Learning.

Sweigart, A. 2020. *Automate The Boring Stuff With Python.* San Francisco. No Starch Press.

**Websites**

**Python documentation**

No Name. No date. *Python 3.9.5 documentation.* [Online] [Accessed on 19/5/2021] Available from: <https://docs.python.org/3/>

No Name. No date. *CSV File Reading and Writing.* [Online] [Accessed on 19/5/2021] Available from: <https://docs.python.org/3/library/csv.html>

No Name. 2001.*CSV PEP8 Style Guide For Python Code.* [Online] [Accessed on 19/5/2021] Available from: <https://www.python.org/dev/peps/pep-0008/>

No Name. 2001. *PEP 257 Docstring Conventions.* [Online] [Accessed on 19/5/2021] Available from: <https://www.python.org/dev/peps/pep-0257/>

**Stackoverflow.com**

No author. No date. Various stackoverflow questions and answers [Online][Accessed on 17/5/2021] Available from:

<https://stackoverflow.com/questions/4246353/how-to-increase-the-font-size-of-a-text-widget>

<https://stackoverflow.com/questions/28575192/how-do-i-set-the-matplotlib-window-size-for-the-macosx-backend>

<https://stackoverflow.com/questions/23584325/cannot-use-geometry-manager-pack-inside>

<https://stackoverflow.com/questions/53162/how-can-i-do-a-line-break-line-continuation>

<https://stackoverflow.com/questions/14417571/breaking-a-line-of-python-to-multiple-lines>

https://stackoverflow.com/questions/11190735/python-matplotlib-superimpose-scatter-plots

**TKinter**

The main source on TKinter was a numbered series of tutorial videos accessed on You Tube recorded under the name “The New Boston”.

No author. No date. Python GUI with TKinter 1-8. [Online] [Accessed on 17/05/2021]. Available from:

<https://www.youtube.com/watch?v=RJB1Ek2Ko_Y>

https://www.youtube.com/watch?v=RTM9tiV\_HoY

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<https://www.youtube.com/watch?v=wNBqM28MMjs>

https://www.youtube.com/watch?v=qWnE-yp6wzU

<https://www.youtube.com/watch?v=PSm-tq5M-Dc>

Scott, B. No date. *Using Tkinter widgets in Python.* [Online] [Accessed 17/05/2021] Available from: https://www.dummies.com/programming/python/using-tkinter-widgets-in-python/

**Beautiful Soup**

No author. No date. *Beautiful Soup Documentation.* [Online] [Accessed 17/05/2021]

Available from: <https://www.crummy.com/software/BeautifulSoup/bs4/doc/>

Gunasekaran, S.S. No date. Guide to Parsing HTML with Beautiful Soup in Python. [Online][Accessed 17/05/2021] Available from:

https://stackabuse.com/guide-to-parsing-html-with-beautifulsoup-in-python/

Singhal, G. 2019. Extracting data from HTML with Beautiful Soup. [Online] [Accessed 17/05/2021] Available from: <https://www.pluralsight.com/guides/extracting-data-html-beautifulsoup>

**Matplotlib**

Hunter, [J. D.2007. *Matplotlib: A 2D Graphics Environment*. Computing in Science & Engineering,  **9**(3), pp. 90-95](https://doi.org/10.1109/MCSE.2007.55)

No author. No date. *Matplotlib Tutorials.* [Online] [Accessed 17/05/2012] Available from: https://matplotlib.org/stable/tutorials/index.html

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