TMTplus Introduction to Scientific Programming

Mahdi Farnaghi, Mahdi Khodadadzadeh & Robert Ohuru

March 2021

Lists & iteration

4.3 Iterating over elements

Ex 4.10 Please run the following two scripts and try to understand them. It is helpful if you think up what they will do before you run them.

```
i = 1
while i <= 10:
    print(i)
    i = i + 1
print("Finished")</pre>
```

Ex 4.11 Print each element of the following movies list using a while loop. Note: use Python online documentation to check for this loop type or check back at the lecture slides.

```
movies = [ "The Addams Family", "Ghostbusters", "Jurassic Park", "Pulp Fiction", "Home Alone", "The Matrix"]
```

- Ex 4.12 Using the movies list from the previous exercise, print each element using a for loop.
- Ex 4.13 Nested loops are frequently used to handle lists of lists. Using the following tv_shows list of lists use a nested loop to print all information of each television show.