

# 1 Introduction to the course

- Recognising images
- Detecting disease

2 A bunch is similar to a dictionary as it stores data as key value pairs. A difference is that a bunch is implemented as a class and not a built in Python feature.

3 A Bunch is used to store datasets storing samples and labels.

4

$$x[1, 1] = 5$$
$$x[0, 0] = 1$$
$$5 - 1 = 4$$

5

$$x = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]$$
$$x[1] = 1 \quad x[-1] = 11$$
$$1 + 11 = 12$$

6 The code will fail to run due to the indentation error displaying an exception.