

# Revision questions for Chapter 1

Last updated: September 17, 2022

1. Give two examples of practical problems that can be solved using machine learning.
2. Describe briefly the structure of **Bunch** objects in **scikit-learn**.
3. What is the typical use of **Bunch** objects in **scikit-learn**?
4. What will be the output of the following commands in Python/NumPy?

```
x = np.array([[1, 2, 3], [4, 5, 6]])  
x[1, 1] - x[0, 0]
```

5. What will be the output of the following commands in Python/NumPy?

```
x = np.arange(12)  
x[1] + x[-1]
```

6. What do you think will be the output of the following commands in Python? Why?

```
for i in range(3):  
    print(i)
```

Similar lists of questions will be produced for all chapters of the course to help students in revision. There is no guarantee that the actual exam questions will be in this list, or that they will be in any way similar.