

Homework: Session 3

Additional resources:

- Comparisons ★ <https://realpython.com/python-operators-expressions/>
- if statements ★ <https://realpython.com/python-conditional-statements/>

Question 1

Create a program that tells you whether or not you need an umbrella when you leave the house.

The program should:

1. Ask you if it is raining using `input()`
2. If the input is 'y', it should output 'Take an umbrella'
3. If the input is 'n', it should output 'You don't need an umbrella'

Question 2

I'm on holiday and want to hire a boat. The boat hire costs £20 + a refundable £5 deposit. I've written a program to check that I can afford the cost, but something doesn't seem right.

Have a look at my program and work out what I've done wrong

```
my_money = input('How much money do you have? ')
boat cost = 20 + 5

if my_money < boat_cost:
    print('You can afford the boat hire')
else:
    print('You cannot afford the board hire')
```

Question 3

Your friend works for an antique book shop that sells books between 1800 and 1950 and wants to quickly categorise books by the century and decade that they were written.

Write a program that takes a year (e.g. 1872) and outputs the century and decade (e.g. "Eighteenth Century, Seventies")