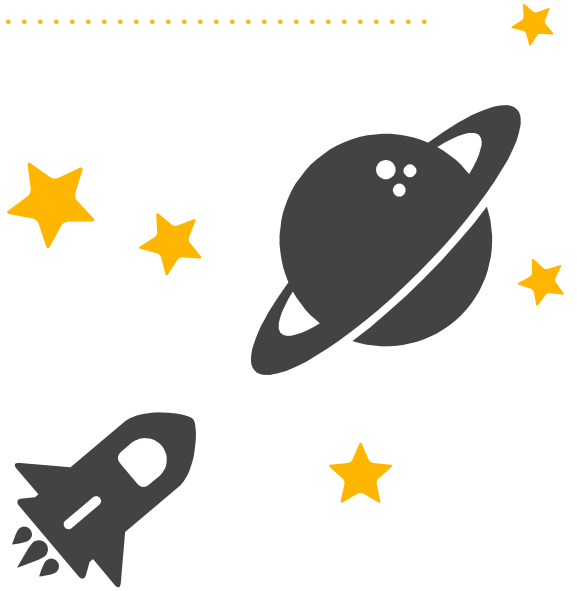
Chatbots with Personality

Self-test



This is a practice quiz. It's not for marks.

Try to do it without looking at your notes (but you can if you need to!)

Theory and Understanding

Open up this week's Practice Quiz, and do Q1 to Q5. Then we'll go over the answers.

Question 1

What would the following code output?

```
print("!.?blah".strip("!.h").upper())
```

Question 2

What does this code output?

```
foods = ["Burger", "Taco", "Tempura"]
print("Tempura".lower().upper() in foods)
```

Question 3

What would the following code output?

```
pico = "pico"
paco = "paco"
poco = "poco"
if pico+paco in ["pico", "paco", "pocopoco"]:
    print("Hello")
else:
    print("Goodbye")
```

Question 4

What would the following code output?

```
for i in ["0", "1", "2"]:
    print(i)
```

Question 5

Consider the following code:

```
isHappy = False
response = input("How are you today?").lower()
if response in ["good", "great", "awesome"]:
    isHappy = True
print(isHappy)
```

What would the output be if the user input was **I feel good**

Coding

Question 1

Write a **New Years Bot** that counts down from 10 to 1.

It should use a loop and each number should be on a new line.

At the end of the countdown, it should output **Happy new year!**

Here is a sample run:

```
>
10
9
8
7
6
5
4
3
2
1
Happy new year!
>
```

Question 2

Write a **Star Wars Bot** that decides if you can be on the Dark side, or the Light side.

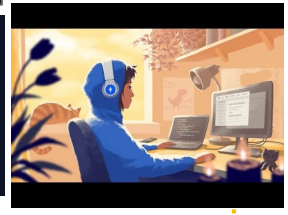
The requirement to be a Dark Lord is pretty easy. If you like capes or the colour red, then you're in! Otherwise it will recommend you to the Light side.

Your bot should be robust to upper/lowercase answers of yes and no.

Here are 5 sample runs:

```
I will decide if you can join the Dark Side.
Is red your favourite color? yes
Do you like capes? yes
Dark side it is!
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? yes
Do you like capes? no
Dark side it is!
```



```
I will decide if you can join the Dark Side.
Is red your favourite color? NO
Do you like capes? YES
Dark side it is!
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? no
Do you like capes? no
Light side, I see.
```

```
I will decide if you can join the Dark Side.
Is red your favourite color? asdf
Do you like capes? asdf
Light side, I see.
```