Chatbots with Personality

Notable Code!

```
# Introduction
print("Hello. Let's talk about some good names for pets.")
time.sleep(1.5)

# Make a list of pet types
pet_types = ["cat", "dog", "fish", "horse"]
# Make a list of pet names
pet_names = ["Maru", "Sedgwick", "Ser Pounce", "Laika", "Belka", "Strelka", "Nemo", "Bubbles", "Boxer", "Mollie",
  "Clover"]
random_name = random.choice(pet_names)

# Ask the user what would be a good name for a particular kind of pet, e.g. a cat
for pet in pet_types:
  print("What do you think is a good name for a " + pet + "?")

  # Get the name from the user
  name = input("your suggested " + pet + " name:").lower().capitalize().strip("!. ,")

  # if the name matches, then agree
  if name in pet_names:
    print("I couldn't agree more, " + name + " is an excellent name for a " + pet + ".")

  # If the name does not match one in the list, respond by repeating the name and questioning the user's choice. Suggest
    a different name, using a random choice from a list
  else:
    random_name = random.choice(pet_names)
    print(name + ", really? I think " + random_name + " is a better name for a " + pet + ".")

  time.sleep(4)
  # Clear the screen between loops
  replit.clear()
```

Cool capitalize method

Nice use of clear

Self-test

This is a mock exam. It's not for marks.

Try to do it without looking at your notes.

Theory and Understanding

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

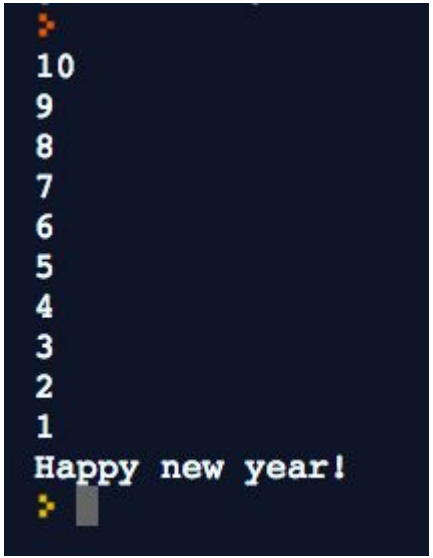
Question 1

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:



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.
```