Day 5 Python Challenge

We've finished preparing for this fifth challenge of your fifth day. Now we are going to put it all together, all hands on deck, because we have a very special challenge coming to you.

Today you are going to program the hangman game. It's simple, popular, but if you don't know it, let me explain it really quickly: **The program will choose a secret word and we'll show the player only a series of dashes that represent the number of letters in the word. In each turn, the player must choose a letter: if that letter is in the hidden word, the system will show where it is located, but if the player chooses a letter that is not in the hidden word, they lose a life.**

In the real hangman game, each time we lose a life, the drawing of the hangman is completed limb by limb. But in our case, as we still do not have the graphic elements, **we will simply tell the user that they have six lives, and we will deduct them one by one for each time the player chooses an incorrect letter.**

If the player runs out of lives before guessing the word, the player loses. But if they guessed the whole word before losing all their lives, the player wins.

Sounds simple, but how do we design all this in code? Here are some clues:

1. First, you are going to create code that imports the choice() method, since you are going to need it so that the system can **choose a random word** from a list of words that you are also going to create at the beginning.
2. After that, you are going to **create as many functions as you think necessary** for the program to do things like: asking the user to choose a letter, checking if what the user has entered is a valid letter, checking if the entered letter is in the word or not, checking if they have won or not... Remember to write the functions first, then the code that implements those functions in an orderly fashion after.

This is a special project and I really want you to know that I don't expect you to be able to solve it without help. In fact, I will tell you that you're bound to get to a point where you get all the code tangled up and you will need some help from our solution. And if that happens, it is totally normal.

I think you might need some extra help, and that's why I've created an additional lecture with some hints and tips that might make your life a little bit easier.

All right, go at it. See you in the next lecture or in our solution video.