

Question 01) Hangman is a popular word game. In this game, the player is given some number of blanks representing the word, name of a movie or an actor/actress, etc... and the user has to guess the name using at most K number of chances.

Program Specifications:

- 1) Create a text file and populate it with words (cities, movies, actors/actresses)
- 2) Write code to open the file and get the number of lines in the file, create a random integer between 1 and the number of lines in your file, then get the word on that line and save it in a variable
- 3) Output the appropriate number of dashes and spaces to represent the word/phrase
- 4) Continuously read guesses of a letter from the user and fill in the corresponding blanks if the letter is in the word, otherwise report that the user has made an incorrect guess.
- 5) Each turn you will display the phrase as dashes but with any already guessed letters filled in, as well as which letters have been incorrectly guessed so far and how many guesses the user has remaining.
- 6) Your program should allow the user to make a total of $k = 6$ guesses.

Question 02) Create a file that contains a list of countries and their capitals:

country01 : its capital

country02 : its capital

for example, your file may look like this:

Germany : Berlin

Russia : Moscow

... : ...

Create a Python code that will calculate the number of lines in your file, then assign one of the lines to a variable. Then write code to print to the user:

“What’s the capital of Germany?”

If the user enters ‘Berlin’, then the user wins, otherwise prompt the user with ‘You lost’ and pick another country. Repeat five times.