CS2450 is about Software Engineering – about all aspects of Software production from specification to evolution. Soon you will be asked to form teams and to choose a project to work on over this term.

Even though this is not a programming class and the focus is on activities like planning, scheduling, designing, testing, etc. there will be a time when the project needs to be implemented. Knowing the programming skills of the team members will help you choose an appropriate scope for the project.

That's why I want you to program a Hangman game in this first assignment.

Requirements:

- a) It needs to be a console application
- b) Programming Language: Java of C# If you don't program in either of these languages you can use a programming language of your choice. In that case let me know what other language you used as you turn in the assignment and show me a running version on your computer in class.
- c) Know the word to guess You may hardcode a word (e.g. "Utah"). It is okay if your program works with just one word at the time. However, it still needs to work when I exchange the hardcoded word with something else – for example "Mississippi" or "Hawaii"
- d) Initial number of lives: 6
- e) Display the word in the following way:
 - each letter, that has not been guessed is an underscore
 - each letter that has been guessed is printed
 - if the word contains the same letter multiple times all occurrences count as guessed as soon as the use enters this letter
 - Separate the underscores and letters with a blank to make it easier to read
- f) Display the current number of lives
- g) Let the user guess a letter
- h) If he letter is not part of the word, reduce the number of lives by one
- i) Repeat e) h) until the word is guessed or the number of lives is 0
- j) If the word is guessed, the player wins. If the number of lives is 0 the player looses
 Display the complete word and write an appropriate message to indicate whether the player won or lost

Below you can find 2 sample outputs from different implementations of the game.

Sample Output 1:

____ (lives left: 6) Your guess: a _ _ a _ (lives left: 6) Your guess: e _ _ a _ (lives left: 5) Your guess: i _ _ a _ (lives left: 4) Your guess: 0 __ a __ (lives left: 3) Your guess: u u _ a _ (lives left: 3) Your guess: d u _ a _ (lives left: 2) Your guess: t u t a _ (lives left: 2) Your guess: h utah (lives left: 2)

Turn in:

congratulations!

Zip up your hangman project and name it A01.zip Turn it in via Canvas

Good luck!

Sample Output 2:















