Assignment 5 (Hangman Game)

#include <stdio.h>

#include <string.h>

#include <ctype.h>

int main() {

char word[] = "coding";

char guessedWord[20];

int wordLength = strlen(word);

int attempts = 3;

int correctGuesses = 0;

char guess;

for (int i = 0; i < wordLength; i++) {

guessedWord[i] = '\_';

}

guessedWord[wordLength] = '\0';

printf("Welcome to Hangman!\n");

printf("You have %d attempts to guess the word.\n", attempts);

while (attempts > 0 && correctGuesses < wordLength) {

printf("Current word: %s\n", guessedWord);

printf("Enter your guess: ");

scanf(" %c", &guess);

guess = tolower(guess);

int found = 0;

for (int i = 0; i < wordLength; i++) {

if (word[i] == guess && guessedWord[i] == '\_') {

guessedWord[i] = guess;

correctGuesses++;

found = 1;

}

}

if (!found) {

attempts--;

printf("Wrong guess! Attempts remaining: %d\n",

attempts);

} else {

printf("Good guess!\n");

}

}

if (correctGuesses == wordLength) {

printf("Congratulations! You guessed the word: %s\n", word);

printf("The Man survives!\n");

} else {

printf("You ran out of attempts! The word was: %s\n", word);

printf("The Man is hanged!\n");

}

return 0;

}