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;
}
```