

Assignment 5 (Hangman Game)

```
#include <stdio.h>
```

```
#include <string.h>
```

```
#include <ctype.h>
```

```
int main() {
```

```
    char word[] = "love";
```

```
    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;
```

```
}
```