Technical Report

First, I initialized all of the variables that I will need for this program. The variable that I have initialized is hangManSent, which is the sentence or word that the user will input and be stored in this variable. Then I declared that lowerStr wll equal str.lower(hangManSent) which will make the variable hangManSent lowercase. After doing that, I declared parsedStr will equal lowerStr.replace(“ “, “”) which will remove any spaces from the variable lowerStr. Second, I declared bodyParts to equal a list of body parts such as head, nose, left ear, right ear, etc(of course these are all strings). Third, I set the variables count and i to equal zero. Count will keep track of the letters that the user guessed correctly and i will be the index in the list: bodyParts. Finally, the last variable is usedLetters that will keep track of what letters the user inputs.

Next, after I initialize all of the variables, I start with a while loop. I am using a while loop because I know what the end is which is the last element of the bodyParts list. while correctGuess < len(parsedStr) and I < len(bodyParts). correctGuess is less than the length of the parsedStr because I want to continue doing the loop until correctGuess is equal to the length and when i reaches the end of the list: bodyParts. So in the while loop, the first thing I do is set the variable: userGuess, to imput(Enter a letter), which is where the user enters a letter to guess. After that, I need to check if the users guess is correct or incorrect and check if the user types in the same letter. In order to do this I have a if statement and say:

if userGuess in usedLetters:

it will print that the user guessed the letter already

What this means is that if the letter that the user guessed is in the string, usedLetters, already, the program will tell you that the user guessed that letter already and run through the loop again. After the first check, I do

elif parsedStr.count(userGuess) > 0:

the users guess is added to the variable: usedLetters.

Also the program prints that the letter the user guess is found in the word and prints what letters the user used so far.

After that, it adds the number of times the letter appeared to the variable correctGuess.

In this statement, for example, if the user guesses the letter “o” and the word is “hello”, the statement above will check if the letter “o” is in the word “hello” and how many times it appears in the word. If it does find the letter in the word, it adds the letter to usedLetters, because I want to keep track of the letters that the user has used, and it prints that the letter is found in the word. Then it adds a number to the variable correctGuess, the number is the number of times the letter appeared in the word. After the second check, the next check is:

else:

the users guess is added to the variable usedLetters

Also since the user did not guess the correct letter that is in the word, a body part is added to hangman and prints the letters the user used so far.

And Increments i by one.

Finally, have a if statement outside of the while loop to see of the number of correct guesses is equal to the length of the parsedStr. If it is, the user wins the game and if not, the user loses the game.