## Code:

```
hangman.py - C:/Users/Admin/Desktop/School/CIS 6/week10/hangman.py (3.9.1)
                                                                                                       \times
File Edit Format Run Options Window Help
import random
hangman visual = ['''
     ===111, 111
    ===00,000
    ===111, 111
  0 |
  11
    ===111, 111
 0 |
 /1\
    ===111, 111
 0
 /1\ 1
    ===111, 111
 0 1
 711
     ===111, 111
        \ RIP HANGMAN
'x x |
       YOU SAVED HIM!
/ YOU SAVED HIM!

| ^ - | NICE VOCABULARY!
#list of words to choose from
words = '''cabbage sheep brass rustic canvass tomatoes paper sweater stomach erase kitten flavor escape
crayon bread tiger groovy brother oranges pencil square potato elbow vacation aquatic'''.split()
def gameBoard(missedLetters, correctLetters, secretWord): #function to display the board of the game
    print(hangman_visual[len(missedLetters)]) #prints hangman visual
    print('\nMissed letters:', end=' ')
     for letter in missedLetters: #prints missed letters seperated by spacea
        print(letter, end=' ')
    print()
    blanks = '_' * len(secretWord) #makes blank word the size of secret word
     for i in range(len(secretWord)):
        if secretWord[i] in correctLetters:
            blanks = blanks[:i] + secretWord[i] + blanks[i+1:] #replaces blanks with correct guesses
     for letter in blanks: #prints the secret word with spaces seperating the underscores
        print(letter, end=' ')
     print()
                                                                                                     Ln: 124 Col: 31
```

```
🔒 hangman.py - C:/Users/Admin/Desktop/School/CIS 6/week10/hangman.py (3.9.1)
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                                                                                                           ×
File Edit Format Run Options Window Help
def checkGuess(oldGuess): #checks the guess to make sure it is a valid character
    while True:
         guess = input('Guess a letter: ')
         guess = guess.lower()
         if guess in oldGuess: #checks if guess have been done already
            print('You already guessed that letter.')
         elif len(guess) != 1: #checks if they enter more or less than 1 letter
            print('Please enter a single letter.')
         elif guess not in 'abcdefghijklmnopqrstuvwxyz': #checks if user entered a character other than a let
            print('Please enter a letter.')
         else:
             return guess
def randoWord(wordList):
                           #returns a random word from the list of words
    guessWord = random.randint(0, len(wordList) - 1)
     return wordList[quessWord]
print('Use your vocabulary skills and save Mr. Hangman from his doom') #added plot, lore enhances user experie
print('H A N G M A N')
gameEnd = False
missedLetters = ''
correctLetters = ''
secretWord = randoWord(words)
    gameBoard(missedLetters, correctLetters, secretWord) #display board
     quess = checkGuess(missedLetters + correctLetters) #gets new guess
     if guess in secretWord:
         correctLetters = correctLetters + guess #adds correct guesses to correct letters variable
         allLetters = True
         for i in range(len(secretWord)):
             if secretWord[i] not in correctLetters: #checks for win by seeing if every letter matches, return
                 allLetters = False
                 break
         if allLetters:
            print('You got it! The secret word was "' + secretWord + '"!')
             print(hangman visual[8]) #win screen
             gameEnd = True
    else:
         missedLetters = missedLetters + quess #adds missed quesses to missed letter variable
         if len(missedLetters) == len(hangman visual) - 3: #displays loss if guesses exceeds number of guesse
             gameBoard(missedLetters, correctLetters, secretWord)
             print('Out of guesses!')
             print('The secret word was "', secretWord, '"')
             print('You had ' + str(len(missedLetters)) + ' missed guesses and ' + str(len(correctLetters)) .
             print(hangman_visual[7]) #loss screen
             gameEnd = True
     if gameEnd: #asks if they want to play again if the game is finished
         replay = input('\nDo you want to play again? (y/n)\n')
         if replay.startswith('y'): #replays the game if user enters anything starting with 'y'
            print('H A N G M A N')
             gameEnd = False
             missedLetters = ''
             correctLetters =
             secretWord = randoWord(words)
         else:
             break
```

Ln: 124 Col: 31

## **Shell (Start + Failed Guesses):**

```
*IDLE Shell 3.9.1*
                                                                                  Х
                                                                            File Edit Shell Debug Options Window Help
====== RESTART: C:/Users/Admin/Desktop/School/CIS 6/weekl0/hangman.py ======= ^
Use your vocabulary skills and save Mr. Hangman from his doom
HANGMAN
Missed letters:
Guess a letter: a
Missed letters:
__a__
Guess a letter: b
Missed letters: b
__a ___
Guess a letter: c
Missed letters: b
c _ a _ .
Guess a letter: b
You already guessed that letter.
Guess a letter: 7
Please enter a letter.
Guess a letter: abc
Please enter a single letter.
Guess a letter:
                                                                          Ln: 581 Col: 16
```

## Win Screen + Replay:

```
*IDLE Shell 3.9.1*
                                                                      _ _
                                                                                  \times
File Edit Shell Debug Options Window Help
Missed letters: b
c r a y _ _ Guess a letter: o
Missed letters: b
crayo_
Guess a letter: n
You got it! The secret word was "crayon"!
        \ YOU SAVED HIM!
   ^ - | NICE VOCABULARY!
Do you want to play again? (y/n)
HANGMAN
Missed letters:
Guess a letter:
                                                                          Ln: 632 Col: 16
```

## Loss Screen + No Replay:

```
iDLE Shell 3.9.1
                                                                             ×
File Edit Shell Debug Options Window Help
71\ 1
Missed letters: z x v q
Guess a letter: p
 71\ 1
Missed letters: z \times v \neq p
Guess a letter: m
 71\ T
Missed letters: z x v q p m
Out of guesses!
The secret word was " brass "
You had 6 missed guesses and 0 correct guesses
        \ RIP HANGMAN
Do you want to play again? (y/n)
>>>
                                                                            Ln: 704 Col: 4
```

Resources: https://inventwithpython.com/invent4thed/chapter8.html