

Untitled-1

```

1  import random
2
3  # Hangman visual states
4  HANGMAN_PICS = [
5      """
6      +---+
7      |   |
8          |
9          |
10         |
11         |
12         |
13 ===== """,
14      """
15      +---+
16      |   |
17      0   |
18          |
19          |
20          |
21 ===== """,
22      """
23      +---+
24      |   |
25      0   |
26      |   |
27          |
28          |
29 ===== """,
30      """
31      +---+
32      |   |
33      0   |
34      /|  |
35          |
36          |
37 ===== """,
38      """
39      +---+
40      |   |
41      0   |
42      /|\  |
43          |
44          |
45 ===== """,
46      """
47      +---+
48      |   |

```

```

49     0   |
50    /|\  |
51    /    |
52    |    |
53    ===== "",
54    ""
55    +---+
56    |   |
57    0   |
58    /|\  |
59    / \  |
60    |    |
61    ===== "" ]
62
63 # List of words and hints
64 words_with_hints = {
65     "python": "A popular programming language.",
66     "elephant": "The largest land animal.",
67     "guitar": "A musical instrument with strings.",
68     "airplane": "A flying vehicle.",
69     "pyramid": "A famous ancient structure in Egypt.",
70 }
71
72 def get_random_word_and_hint(words_with_hints):
73     word, hint = random.choice(list(words_with_hints.items()))
74     return word.upper(), hint
75
76 def display_hangman(tries):
77     print(HANGMAN_PICS[tries])
78
79 def display_word_progress(word, guessed_letters):
80     display = [letter if letter in guessed_letters else "_" for letter in word]
81     print("Word: " + " ".join(display))
82
83 def play_hangman():
84     word, hint = get_random_word_and_hint(words_with_hints)
85     guessed_letters = set()
86     tries = 0
87     max_tries = len(HANGMAN_PICS) - 1
88
89     print("Welcome to Hangman!")
90     print(f"Hint: {hint}")
91
92     while tries < max_tries:
93         display_hangman(tries)
94         display_word_progress(word, guessed_letters)
95
96         guess = input("Guess a letter: ").upper()
97
98         if len(guess) != 1 or not guess.isalpha():

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```
99         print("Invalid input. Please enter a single letter.")
100         continue
101
102     if guess in guessed_letters:
103         print("You've already guessed that letter.")
104         continue
105
106     guessed_letters.add(guess)
107
108     if guess in word:
109         print(f"Good guess! '{guess}' is in the word.")
110         if all(letter in guessed_letters for letter in word):
111             print(f"Congratulations! You guessed the word: {word}")
112             break
113     else:
114         print(f"Sorry, '{guess}' is not in the word.")
115         tries += 1
116
117     if tries == max_tries:
118         display_hangman(tries)
119         print(f"Game Over! The word was: {word}")
120
121 if __name__ == "__main__":
122     play_hangman()
123
```