

Python

About Hangman

- Hangman is a **Word Guessing Game**.
- Game starts with all the alphabets of a word showing as blanks
(Ex: `_____` will display for word : `HANGMAN`).
- When you guess a correct alphabet, corresponding blanks get filled with that alphabet
(Ex: Sequence 2 in the image below `_ A _ _ _ A _`)
- If you guess a wrong character, a body part of the man gets drawn and your number of lives reduces by one.
- The game ends in 2 ways:
 1. Guess all characters or complete word before all live finish, you WIN
 2. All lives are over before guessing the correct word, you LOOSE.
 - *Anytime in the game, the player can guess the complete word (i.e. the user enters the complete word instead of entering a single character). In that case, if the user enters the correct word they win, otherwise they lose directly even if some lives are left.*

Instructions

- Source code template available at: <https://github.com/leangaurav/PythonTraining>
Use `hangman_template.py` if you wish to.
- Watch to understand all test cases <https://youtu.be/JRfKHk8sYkU>
- Since Hangman game needs you to have a valid random word. Use following function to get random word. To get more info about how it works, see **RandomWord API Project**.

```
import urllib.request as request

def get_word():
    word = None
    try:
        # Replace with your URL here
        req_obj = request.urlopen('http://tuteurpy.pythonanywhere.com/randomword')
        word = req_obj.read().decode("UTF-8")
        word = word.strip()
    except Exception as e:
        print("Exception getting Random word", str(e))
    return word

if __name__ == '__main__':
    print(get_word())
```

hangman_template.py

- Define function **show_menu()** to display a menu in loop:

```
1. Play
2. Rules
3. Exit
Enter 1/2/3 :
```

- Define and call functions for each option
 - **print_rules():**
Print the rules of the game. Read rules from the file **rules.txt** present in template folder.
 - **play_game():**
Add all the game logi. Use the **get_word()** function to fetch a random word.