PYTHON MINI PROJECT

Topic: Hangman Game

Goal: This project is a game we all have played in our past. This is the Hangman game. After starting the game user will get a word to guess in 6 tries. The tries will be displayed visually.

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Code:

hangman code

```
import import_ipynb


import random
import words
from words import word_list



def get_word():
    word = random.choice(word_list)
    return word.upper()
```

```
def play(word):
    word_completion = "_" * len(word)
    guessed = False
    guessed_letters = []
    guessed_words = []
    tries = 6
    print("Let's play Hangman!")
    print(display_hangman(tries))
    print(word_completion)
    print("\n")
    while not guessed and tries > 0:
        guess = input("Please guess a letter or word: ").upper()
        if len(guess) == 1 and guess.isalpha():
            if guess in guessed_letters:
                print("You already guessed the letter", guess)
            elif guess not in word:
                print(guess, "is not in the word.")
                tries -= 1
                guessed_letters.append(guess)
            else:
                print("Good job,", guess, "is in the word!")
```

```
        guessed_letters.append(guess)
        word_as_list = list(word_completion)
        indices = [i for i, letter in enumerate(word) if letter == guess]
        for index in indices:
            word_as_list[index] = guess
        word_completion = "".join(word_as_list)
        if "_" not in word_completion:
            guessed = True
    elif len(guess) == len(word) and guess.isalpha():
        if guess in guessed_words:
            print("You already guessed the word", guess)
        elif guess != word:
            print(guess, "is not the word.")
            tries -= 1
            guessed_words.append(guess)
        else:
            guessed = True
            word_completion = word
    else:
        print("Not a valid guess.")
    print(display_hangman(tries))
    print(word_completion)
```

```
        print("\n")
    if guessed:
        print("Congrats, you guessed the word! You win!")
    else:
        print("Sorry, you ran out of tries. The word was " + word + ". Maybe next time!")



def display_hangman(tries):
    stages = [
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                """,

                """
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        """
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            -
        """
    ]
    return stages[tries]



def main():
    word = get_word()
    play(word)
    while input("Play Again? (Y/N) ").upper() == "Y":
        word = get_word()
        play(word)
```
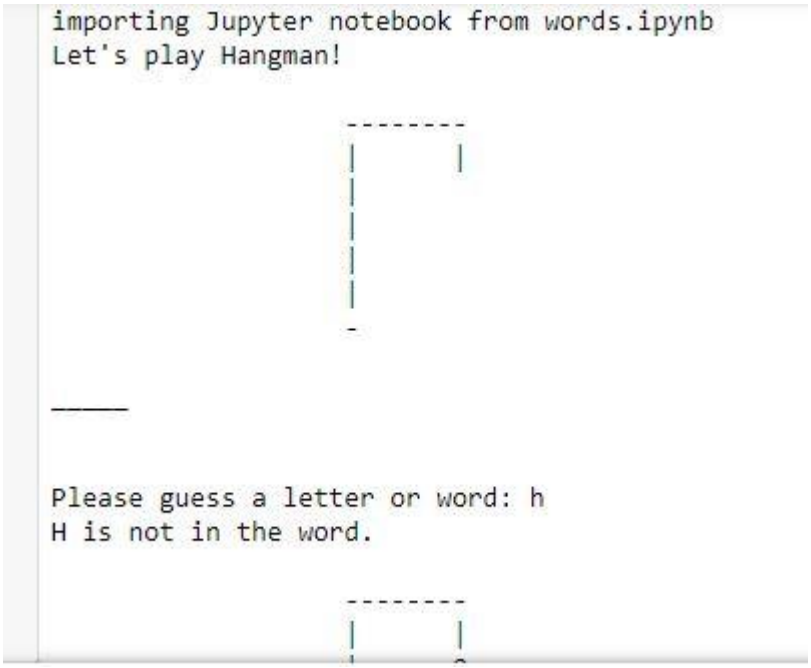

```
if __name__ == "__main__":
    main()
```

Words Code

```
word_list = [ 'wares', 'soup','mount','extend',
'brown','expert','tired','humidity','backpack', 'crust', 'dent',
'market','knock',  'smite', 'windy', 'coin', 'throw','silence', 'bluff',
'downfall','climb','lying','weaver', 'snob','kickoff', 'match', 'quaker',
'foreman','excite', 'thinking',  'mend', 'allergen', 'pruning','coat' ,
'emerald','coherent', 'manic','multiple','square', 'upset',    'robotics',
'while','jaguar','seminary','command','cassette','draw','anchovy','scre
am','blush','organic','applause','parallel','trolley','pathos','origin','han
g','pungent','angular','stubble', 'painted','forward','saddle','muddy',
'orchid', 'prudence','disprove','yiddish','lobbying','neuron','tumor',
'haitian','swift', 'mantel','wardrobe','consist','storied','extreme',
'payback','control','dummy', 'influx','realtor', 'detach','flake',
'consign','adjunct','stylized','weep','prepare','pioneer','tail','platoon','
exercise','dummy','clap','actor', 'spark','dope', 'phrase', 'welsh',
'wall','whine','fickle', 'wrong','stamina', 'dazed','cramp','filet',
'foresee','seller','award', 'mare','uncover','drowning', 'ease',
'buttery','luxury','bigotry', 'muddy', 'photon',  'snow', 'aide','breeder',
'concoct', 'pathway', 'hearing', 'bayou', 'regimen','drain', 'bereft',
'matte', 'bill', 'medal','prickly', 'sarcasm', 'stuffy', 'allege','monopoly',
'lighter','repair', 'worship','vent', 'hybrid',  'buffet',  'lively']
```

OUTPUT:



```
importing Jupyter notebook from words.ipynb
Let's play Hangman!

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_____


Please guess a letter or word: h
H is not in the word.

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```

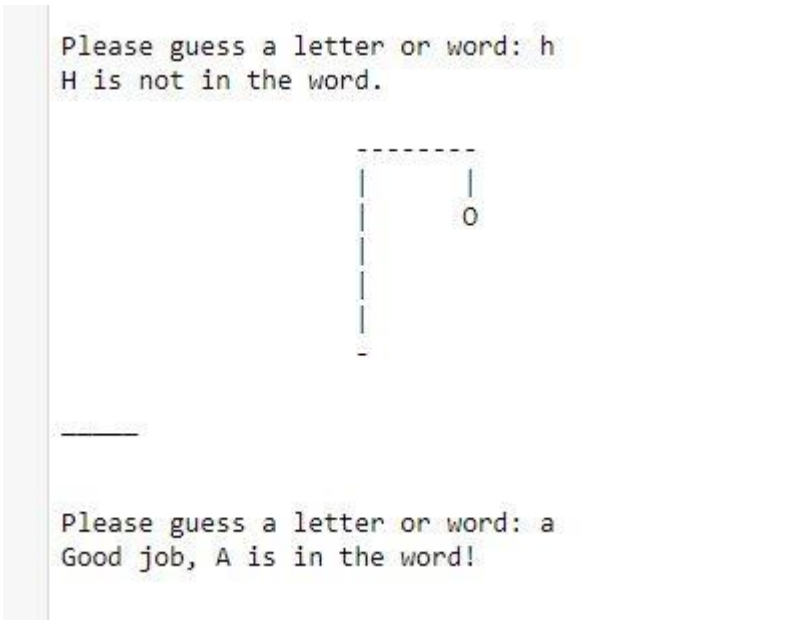

```
Please guess a letter or word: h
H is not in the word.

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_____


Please guess a letter or word: a
Good job, A is in the word!
```
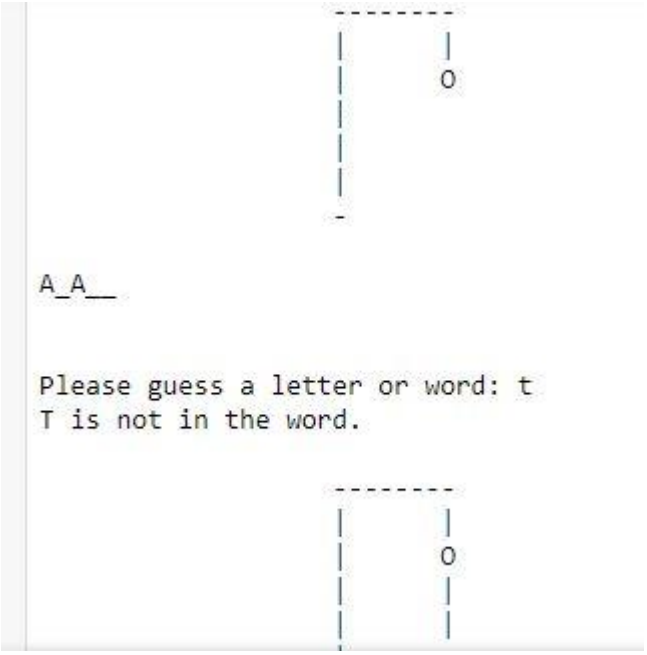
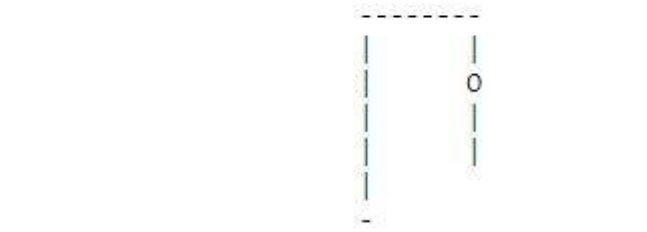



```
A_A__


Please guess a letter or word: t
T is not in the word.
```



```
Please guess a letter or word: t
T is not in the word.
```



```
A_A__


Please guess a letter or word: l
L is not in the word.
```

```
Please guess a letter or word: l
L is not in the word.

                    --------
                    |      |
                    |      O
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A_A__


Please guess a letter or word: e
E is not in the word.
```

```
A_A__


Please guess a letter or word: b
B is not in the word.
```

```
Please guess a letter or word: r
Good job, R is in the word!

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A_AR_


Please guess a letter or word: s
S is not in the word.

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A_AR_


Sorry, you ran out of tries. The word was AWARD. Maybe next time!
Play Again? (Y/N) N
```

My contribution to this project was the hangman code and i have explained it in the following video

[Click here to visit the video]