

PYTHON SCRIPT ASSIGNMENT

```
from IPython.display import clear_output
```

```
print('type LetsPlay() to start the game!!!')
```

```
def LetsPlay():
```

```
    name = input("ENTER YOUR NAME: ") #Let the player input their name
```

```
    print("WELCOME", name, "TO A SIMPLE HANGMAN GAME ")
```

Print for show the object to the screen

```
    print("#####")
```

```
    print("PLEASE TYPE hangman()")
```

```
    print("TRY TO GUESS THE TYPES OF ROCKS IN 9 TRIES OR LESS")
```

```
    print()
```

THE START OF THE MAIN PROGRAM

```
def hangman(): #Write hangman() to start the game
```

```
    import random #For a random choice
```

Random.choice() function The output changes every time as choice() function is used.

```
    word = random.choice(["gabbro", "basalt", "granite", "andhesite", "obsidian", "diorite"]) #Choices  
    that we used in this game
```

```
    validLetters= 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ' #The player  
    only can guess the word with alphabet letters
```

```
    turns = 10 #The player turns to guess the word
```

```
    guessed = " #Starts from blank
```

```
    while len(word) > 0:
```

The starter function to display "_ "

```
        msg = ""
```

```
        missed = 0
```

```
        for letter in word:
```

```
            if letter in guessed:
```

```
                msg = msg + letter
```

```
            else:
```

```
                msg = msg + "_ " + " "
```

```
missed += 1  
if msg == word:  
    print(msg)  
    print("YOU ARE CORRECT, THE WORD WAS: ", word)
```

```
if str(input("press space to restart the game: ")) != "space": # Function to restart the game
```

```
    clear_output()  
    hangman()
```

Clear_output() function is to clear the output and start from the beginning.

```
print("GUESS THE WORD:", msg)
```

```
guess = input()
```

```
if guess in validLetters:
```

```
    guessed = guessed + guess
```

```
else:
```

```
    print("ENTER A VALID LETTER: ")
```

```
    guess = input()
```

```
if guess not in word:
```

```
    turns = turns - 1
```

```
    if turns == 9:
```

```
        print(" o")
```

```
    if turns == 8:
```

```
        print(" o")
```

```
        print(" |")
```

```
    if turns == 7:
```

```
        print(" o")
```

```
        print(" |")
```

```
        print(" / ")
```

```
    if turns == 6:
```

```
        print(" o")
```

```
        print(" |")
```

If you failed to guess the letter, the chance will be -1

```
print(" /\ ")
if turns == 5:
    print(" o")
    print(" |")
    print("_/\ ")
if turns == 4:
    print(" o")
    print(" |")
    print("_/\_ ")
if turns == 3:
    print(" o")
    print(" -|")
    print("_/\_ ")
if turns == 2:
    print(" o")
    print(" -|-")
    print("_/\_ ")
if turns == 1:
    print("YOU HAVE FAILED TO GUESS THE WORD:",word)
    if str(input("press space to restart the game: ")) != "space": # Function to restart the
game
        clear_output()
        hangman()
```

Clear_output() function is to clear the output and start from the beginning.

This game was created by using the basic functions. The function used are primarily the 'while' function and 'if','else', 'def' function which act as the key functions in order for the game to run.

The idea of the game is that players can guess from the questions given, but there are only a few opportunities to guess right. If he can't guess then he loses.