

NAME : ALICE DURGE

ROLL NO : 5840

CLASS : SYCS-A

## **DATA STRUCTURE USING PYTHON PROJECT**

**TOPIC:**WORD GUESSING GAME

### **INTRODUCTION:**

The following ***WORD GUESSING GAME*** is implemented using ***list data structure***. In this game, there is a list of words present, out of which our interpreter will choose 1 random word. The user first has to input their names and then, will be asked to guess any alphabet. If the random word contains that alphabet, it will be shown as the output(with correct placement) , else the program will ask you to guess another alphabet. The user will be given 12 turns(which can be changed accordingly) to guess the complete word. It consists of ***while and for loop*** , and control statements such as ***if statement and if-else statement*** . Also uses a ***random module*** so that its ***choice()*** function can select any random word from the specified given list.

**CODE:**

```
import random
name = input("What is your name? ")
print("Good Luck ! ", name)
words = ['java', 'computer', 'science', 'programming',
         'python', 'mathematics', 'coding', 'condition',
         'html', 'dbms', 'function', 'loops']
word = random.choice(words)
print("Guess the characters")
guesses = " "
turns = 12
while turns > 0:
    failed = 0
    for char in word:
        if char in guesses:
            print(char, end=" ")
        else:
            print("_")
            failed += 1
    if failed == 0:
        print("You Win")
        print("The word is: ", word)
        break
    print()
    guess = input("guess a character:")
    guesses += guess
    if guess not in word:
        turns -= 1
        print("Wrong")
        print("You have", + turns, "more guesses ")
    if turns == 0:
        print("You Loose")
```

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**OUTPUT:**

```
>>>===== RESTART: C:\
What is your name? liya
Good Luck ! liya
Guess the characters

-
-
-
-
-
-
-
-
-
-
-
guess a character:p
P _
-
-
-
-
-
-
-
-
-
-
guess a character:g
P _
g _
-
-
-
-
-
g
```

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```
guess a character:o
p _
o g _
_
_
_
_
_
g
guess a character:m
p _
o g _
_
m m _
_
g
guess a character:i
p _
o g _
_
m m i _
g
guess a character:n
p _
o g _
_
m m i n g
guess a character:r
p r o g r _
m m i n g
guess a character:a
p r o g r a m m i n g You Win
The word is:  programming
```

>>> |