Project Report

Project Name: A Word Minion – Dare to Guess Word 

Game Using Python Programming.

Objective:

To create an interesting game which can help us to recall the words in English vocabulary as well as some kind of refreshment to the players.

Proposed System:

The Word minion program randomly selects a secret word from a list of secret words that we have chosen earlier. The random module will provide this ability, so line 1 in program imports it.

Here, a random word (a vegetable name) is picked up from our collection and the player gets limited chances to win the game.

When a letter in that word is guessed correctly, that letter position in the word is made visible. In this way, all letters of the word are to be guessed before all the chances are over.

Rules to guess the word :

- Input single letter in one chance.
- Don’t use repeated letters. if repeated, it shows that already entered.
- Chances will be decremented after every guess.

For our convenience, we have given length of word + 3 chances. For example, word to be guessed is potato, then user gets 6+ 2 = 8 chances, as potato is a six letter word.

We can also fetch more secret words by taking it as a file which can have pre -written 15k+,20K+,...etc words in it and just give path to open the file and read the text command and take random words in it.

Tool Code:

```
# Word minion Game

import random

from collections import Counter


someWords = ''' cucumber ladyfinger beetroot brinjal drumstick

tomato beans potato gherkin raddish carrot bittergourd snakegourd

cabbage pumpkin mushroom cauliflower bottlegourd capsicum ridgeguord'''


someWords = someWords.split(' ')   # it can randomly choose a secret word from our "someWords" LIST.

word = random.choice(someWords)


if __name__ == '__main__':

    print('Guess the word! HINT: word is a name of a vegetable')


    for i in word:      # For printing the empty spaces for letters of the word

        print('_', end = ' ')

    print()


    playing = True

    letterGuessed = ''      # list for storing the letters guessed by the player

    chances = len(word) + 3

    correct = 0
```

```
    flag = 0
    try:
        while (chances != 0) and flag == 0:       #flag is updated when the word is correctly guessed
            print()
            chances -= 1

            try:
                guess = str(input('Enter a letter to guess: '))
            except:
                print('Enter only a letter!')
                continue

    # Validation of the guess
            if not guess.isalpha():
                 print('Enter only a LETTER')
                 continue
            elif len(guess) > 1:
                print('Enter only a SINGLE letter')
                continue
            elif guess in letterGuessed:
                print('You have already guessed that letter')
                continue

            # If letter is guessed correctly
            if guess in word:
```

```
            k = word.count(guess)      #k stores the number of times the guessed letter occurs in the word
            for _ in range(k):
                letterGuessed += guess    # The guess letter is added as many times as it occurs

         # Print the word
        for char in word:
            if char in letterGuessed and (Counter(letterGuessed) != Counter(word)):
                print(char, end = ' ')
                correct += 1
   # If user has guessed all the letters
            elif (Counter(letterGuessed) == Counter(word)):       # Once the correct word is guessed fully,   # the game ends, even if chances remain
                print("The word is: ", end=' ')
                print(word)
                flag = 1
                print('Congratulations, You won!')
                break    # To break out of the for loop
                break    # To break out of the while loop
            else:
                print('_', end = ' ')

   # If user has used all of his chances
      if chances <= 0 and (Counter(letterGuessed) != Counter(word)):
        print()
        print('You lost! Try again..')
```

```
        print('The word was {}'.format(word))
    except KeyboardInterrupt:
        print()
        print('Bye! Try again.')
        exit()
```

Output:

```
Guess the word! HINT: word is a name of a vegetable
_ _ _ _ _ _ _
Enter a letter to guess: k
_ _ _ _ _ _ _
Enter a letter to guess: c
_ _ _ _ _ _ _
Enter a letter to guess: p
_ _ _ _ _ _ _
Enter a letter to guess: c
_ _ _ _ _ _ _
Enter a letter to guess: a
_ a _ _ _ _ _
Enter a letter to guess: r
r a _ _ _ _ _
Enter a letter to guess: d
r a d d _ _ _
Enter a letter to guess: i
r a d d i _ _
Enter a letter to guess: s
r a d d i s _
Enter a letter to guess: h
The word is:  raddish
Congratulations, You won!
```