

Module main():

```
    Declare Integer counter = 0
    Declare Integer index = 0
    Declare Integer error = 0
    Declare Integer guessCount = 0
    Declare Integer guessIndex = 0
    Declare Integer guessTotal = 0
    Declare Integer allGuessCounter = 0
    Declare String guess = ""
    Declare Integer guessArray[1] = [0]
    Declare Integer index = 0
    Declare Integer guessEnumerate[1] = [0]
    Declare String word = ""
    Set word = choice(word)
    Declare String dif
    Set word = (word) - (the last letter in the word)
    Display "Enter in the dev code to see the word or press enter to skip:"
    Input code
    If code == "apple":
        Display word
    End If
    Set length = length(word) underArray = ["_"] * length
    Set jointWordLength = length
    Set guessArray = ["_"] * (jointWordLength + 5)
    Display "The length of the word is",length,"letters."
    Display "There are",jointWordLength,"different letters."
    Display "You have 6 misguesses until you lose."
    While counter in range(0,jointWordLength):
        guessTotal = counter + error + 1
```

Display "Please input a single letter:"

Input guess

Set guess = guess.lower()

Set guess, index = guessMultipleCheck(guess, allGuessCounter, guessArray, index, word)

Set index = index + 1

guessCount = (word.count(guess))

If guessCount >= 1:

    If guessCount == 1:

        Display "Nice, there is 1 "",guess,"" ."

    Else:

        Display "Nice, there are",guessCount,""",guess,""s."

    End If

    counter = counter + 1

Else:

    Display "Sorry, the letter "",guess,"" is not in the",length,"letter word."

    Set error = error + 1

End If

Set allGuessCounter = allGuessCounter + 1

Call errorDisplay(error, word)

Call underScore(word, length, guess, underArray)

Display "Previous guesses:"

Display guessArray

End While

If counter == jointWordLength:

    Display "Congratulations!!"

    Display "You have correctly guessed the word "",word,"" in",guessTotal,"tries ."

End If

End Module

Module restartValid():

    Declare String restart = ""

    Display "Would you like to play again (y/n)"

    Input restart

    Display "\*\*\*\*\*"

    If restart == "y" or restart == "Y":

        Restart Program

    Else:

        Exit Program

    End If

End Module

Function guessMultiplecheck(String guess, Integer allGuessCounter, String guessArray, Integer index, String word):

    While length(guess) != 1 or guess == "" or guess == " ":

        Display "Please input a single letter:"

        Input guess

    End While

    Set guess, index = guessDuplicateCheck(String guessArray, String guess, Integer index, String word, Integer allGuessCounter)

    Return guess, index

End Function

Function guessDuplicateCheck(String guessArray, String guess, Integer index, String word, Integer allGuessCounter):

    While guessArray.count(guess) >= 1 and index > 0:

        Display "That letter has already been guessed"

        Display "please guess another letter:"

        Input guess

    End While

```
If length(guess) != 1 or guess == "" or guess == " ":  
    Set guess, index = guessMultipleCheck(String guess, Integer allGuessCounter,  
String guessArray, Integer index, String word)  
End If  
Set guessArray[index] = guess  
Set allGuessCounter = allGuessCounter + 1  
Return guess, index
```

End Function

Function extreme\_list(String word):

```
Display "You have chosen extreme difficulty."  
Display "Good luck, you're going to need it."  
Declare Integer num = "0"  
Set num = number randomly chosen between (1,58109)  
wordDatabase = open "words_extreme.txt" for read only  
Set word = word on line chosen depending on num  
Close wordDatabase  
Return word
```

End Function

Function hard\_list(String word):

```
Display "You have chosen hard difficulty."  
Display "It is not to be taken lightly."  
Declare Integer num = "0"  
Set num = number randomly chosen between (1,100)  
wordDatabase = open "words_hard.txt" for read only  
Set word = word on line chosen depending on num  
Close wordDatabase  
Return word
```

End Function

Function medium\_list(String word):

    Display "You have chosen medium difficulty."

    Display "It is not to be taken lightly."

    Declare Integer num = "0"

    Set num = number randomly chosen between (1,45)

    wordDatabase = open "words\_medium.text" for read only

    Set word = word on line chosen depending on num

    Close wordDatabase

    Return word

End Module

Function easy\_list(String word):

    Display "You have chosen easy difficulty."

    Display "You better not lose."

    Declare Integer num = "0"

    Set num = number randomly chosen between (1,35)

    wordDatabase = open "words\_easy.text" for read only

    Set word = word on line chosen depending on num

    Close wordDatabase

    Return word

End Function

Module underScore(String word, Integer length, String guess, String underArray):

    For index in range(0, length):

        If guess == word[index]:

            underArray[index] = guess

        End If

End For

Display underArray

End Module

Function guessIndexFinder(String word, String guess, Integer length):

Declare Integer tempIndex = 0

For index in range(0, length):

    If guess == word[index]:

        tempIndex = index

    End If

End For

Return tempIndex

End Function

Module errorDisplay(Integer error, String word):

    If error == 0:

        Display " \_\_\_\_\_ "

        Display " |       | "

        Display "       | "

        Display "       | "

        Display "       | "

        Display "       | "

        Display "       | "

        Display " -----|----- "

    Else If error == 1:

        Display " \_\_\_\_\_ "

        Display " |       | "

        Display " O       | "

        Display "       | "

```
Display " |"  
Display " |"  
Display " |"  
Display " -----└-----"
```

Else If error == 2:

```
Display " _____"  
Display " | |"  
Display " O |"  
Display " / |"  
Display " |"  
Display " |"  
Display " |"  
Display " -----└-----"
```

Else If error == 3:

```
Display " _____"  
Display " | |"  
Display " O |"  
Display " / \ |"  
Display " |"  
Display " |"  
Display " |"  
Display " -----└-----"
```

Else If error == 4:

```
Display " _____"  
Display " | |"  
Display " O |"  
Display " /|\ |"  
Display " | |"  
Display " |"
```

```
Display "      |"  
Display " -----└-----"
```

Else If error == 5:

```
Display " _____"  
Display " |      |"  
Display " O      |"  
Display " /|\    |"  
Display " |      |"  
Display " /      |"  
Display "      |"  
Display " -----└-----"
```

Else If error == 6:

```
Display " _____"  
Display " |      |"  
Display " O      |"  
Display " /|\    |"  
Display " |      |"  
Display " / \    |"  
Display "      |"  
Display " -----└-----"  
Call restartValid()
```

End If

End Module

Function Choice(String word):

```
Declare String dif = ""
```

```
While True:
```

```
    If dif == "1":
```

```
        Set word = easy_list(word)
```



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        Break Loop
    Else If dif == "2":
        Set word = medium_list(word)
        Break Loop
    Else If dif == "3":
        Set word = hard_list(word)
        Break Loop
    Else If dif == "4":
        Set word = extreme_list(word)
        Break Loop
    Else:
        Display "Please choose a difficulty, (1)easy, (2)medium, (3)hard,
(4)extreme:"
        Input dif
    End If
End While
Return word
End Function
```