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function [correct] = HANGMAN()
correct = 0;

bad = 0;
arrWord = {'LAPTOP', 'WHEAT', 'HOMEMADE', 'SOURDOUGH', 'PITA', 'FLOUR', 'TOAST', 'BAGUETTE',
'YEAST'};
length1 = length(arrWord); %This line to 14 is meant to grab a random word out of an array, w
hich its length is turned into a varaible called length2
rndNum = randi(length1);
arr1 = arrWord(rndNum);
word = char(arr1);
length2 = length(word);
blankWord(1) = '_'; %The start of the blank word

for i = 2:2:(length2 * 2)-1 %This loop will create the word that has "_" instead of letters.
    blankWord(i) = ' ';
    blankWord(i+1) = '_';
end
fprintf('Welcome to Hangman!\n'); %welcomes user to hangman
counts = 0;
for i = 2:2:(length2*2) -1 %This makes the letters in the word have 1 space between each othe
r.
    leftOver = word(i:end);
    word(i) = ' ';
    word(i+1: end+1) = leftOver;
end
plays = 1; %These are initialized values for how much the user has made correct and incorrect
ed guesses.
plays1 = 1;
rightG = '';
wrongG = '';
j = 1;
gCheck = '';

while(counts < 6) %loop will run until player loses
    right = 0;
    repeat = 0;
    check = (blankWord ~= word);
    for i = 1:length(check) %This loop checks if all of the letters in the blank word and reg
ular word are the same.
        if(check(i) == 0)
            right = right + 1;
        end
    end

    score = 0;
    guess = '';
    if (plays > 1 || plays1 > 1) %Tells the user his or her right and wrong guesses
        if (~isempty(rightG))
            fprintf('Right guesses: %s\n', rightG);
        else
            fprintf('You have made 0 correct guesses\n');
        end
        if(~isempty(wrongG))
            fprintf('Wrong guesses: %s\n\n', wrongG);

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else
    fprintf('You have made 0 incorrect guesses\n\n');
end
end
fprintf('%s\n', blankWord);
if(right == length(word)) %will break the loop if the word and the blank word are the
same
    break;
end
fprintf('You have %i guesses left\n', counts); %Player enters a letter
guess = input('Guess a letter: ', 's');
guess = upper(guess);

if(length(guess) > 1)
    bad = 1;

elseif(isletter(guess) == [])
    bad = 1;
elseif(isletter(guess) == 0)
    bad = 1;
end

while (bad == 1)
    fprintf('Only letters can be entered!\n');
    guess = input('Guess a letter: ', 's');
    guess = upper(guess);

    if(length(guess) > 1)
        bad = 1;

    elseif(isletter(guess) == [])
        bad = 1;
    elseif(isletter(guess) == 0)
        bad = 1;
    else
        bad = 0;
    end
end

for(i = 1:length(gCheck))
    if(guess == gCheck(i))
        repeat = 1;
    end
end
while (repeat == 1)
    bad1 = 0;
    fprintf('You have already entered that letter!\n');
    guess = input('Guess a letter: ', 's');
    guess = upper(guess);
    for(i = 1:length(gCheck))
        if(guess == gCheck(i))
            bad1 = bad1 + 1;
        end
    end
    if(bad1 >= 1)
        repeat = 1;
    else

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        repeat =0;
    end
end
guess = upper(guess);
for i = 1:length(word) %checks if guessed letter is similar to any letters in word. Will
change blank word accordingly
    if (guess == word(i))
        blankWord(i) = word(i);
        score = 1;
    end
end
if (score == 0) %If no letters are similar to word
fprintf('Your guess was incorrect.\n');
counts = counts + 1;
wrongG(plays) = guess;
wrongG(plays +1) = ' ';
plays = plays + 2;
else
    fprintf('Your guess was correct!\n'); %If one or more letters are similar to word
    rightG(plays1) = guess;
    rightG(plays1 +1) = ' ';
    plays1 = plays1 + 2;
end
gCheck(j) = guess;
j = j +1;
end
if(right == length(word))%Is true if player guessed the word
    correct = 1;
else
    fprintf('The word was %s\n',word); %Displays word if player never found the word.
end
end
end

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Error using dbstatus

When specifying files that are not on MATLAB's current search path, a file extension is required.