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Step 1: noting down the basic rules of the game

Have a conditional statement to display rules or not

Create a word bank and set up list of words

Choose a random word

Tell the player how many letters the word has and how many lives they have left

Make the player guess a letter

Have conditional statements for if the letter is matching or not

If it matches, place the letter

If it doesn't match, the player looses a life

keep repeating until game ends

Step 2: determining what we need in this program

We need if conditions

for or while loops

random word from the word bank

input statements

Step 3 implement code

```
%Harshil Brinda, 1202 Section EC1
disp("You are now playing Hangman, welcome!")
```

You are now playing Hangman, welcome!

```
%the input accepts the input only as y or n
rulesCheck = input("Do you understand the game rules? (y/n)",'s');
clc
%if condition, executes if the player enters n and then displays game rules
if strcmpi(rulesCheck, 'n')
    disp("The game of Hangman is a one player game that requires you to " + ...
        "guess lowercase letters (a-z) to try to guess a word. " + ...
        "You have 8 lives. You lose a life for each wrong letter. " + ...
        "Zero lives results in a Game Over. A reguess of a letter WILL remove a
turn.")
end
```

Your word in this game has 6 letters

```
%char_word = char(word); %converts word into characters
lives = 8; %assigns number of lives

% creating blanks for unguessed letters
wordBlanks=strings;
for i=1:NumLetters
    wordBlanks(i)='_';
end

clc %clear command window
fprintf('%s',wordBlanks) %prints the word blanks
```

```
winChecker = 0 %used in loop below
```

```
winChecker =
```

```
while lives<=8 && lives>0
   disp("You have " + lives + " lives left.") %prints lives left
   guess=input('Enter in your letter guess: ','s') % input your letter guess
   char_guess=char(guess); %converts guess into a character
   letterPos = strfind(word,guess); %finds if guess is part of the word

if ~isempty(letterPos) %checks if player got guess right
   for i=1:length(letterPos)
        letterPlacer=letterPos(i);
        wordBlanks(letterPlacer)=guess; %stores guessed letter
        disp(wordBlanks)
```

```
winChecker = winChecker + 1
        end
    else
        lives=lives-1; %removes a life if guess was incorrect
    end
    if winChecker == NumLetters % checks if letters correct = number of letters
        disp("You guessed the word! Thanks for playing!") %displays win
        break
    elseif lives==0 %if you run out of lives, you lose
        disp("You ran out of lives! The puzzle was: " + word)
    end
end
You have 8 lives left.
guess =
'd'
   .....
       ......
               "d" " " " "
winChecker =
You have 8 lives left.
guess =
'q'
You have 7 lives left.
guess =
'p'
You have 6 lives left.
guess =
'n'
               "d"
  . . .
                      " " "n" " "
winChecker =
You have 6 lives left.
guess =
'h'
You have 5 lives left.
guess =
   . .
         ......
                     " " "n" " "
               "d"
```

winChecker =

You have 5 lives left.

You have 4 lives left.

You have 3 lives left.

You have 2 lives left.

You have 1 lives left.

You ran out of lives! The puzzle was: coding

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'k'

guess =

guess = 'f'

guess =
't'

guess = 'e'