

CE1003/CZ1003: Introduction to Computational Thinking

Assignment 2 Program Testing **Python Hangman Game**

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> SESSION 2012/2013 SEMESTER 1

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- 1. Allow player to choose a category between 1 to 4
- 2. Display which category the player has chosen
- 3. Tell the player the length of the random word they have to guess
- 4. Prompt the player to guess a character or guess the whole word

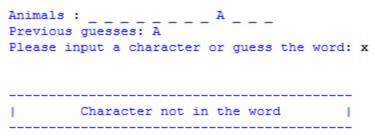
```
    Animals
    Fruits
    Country
    Flowers
    Choose a category [1-4]: 1
    The category you have choosen is: Animals
    The word to guess is 12 characters long
```

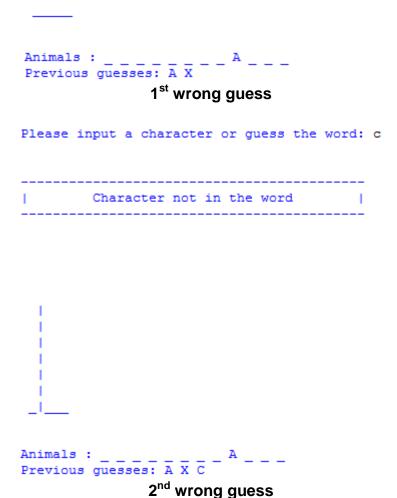
Animals: _____ Please input a character or guess the word:

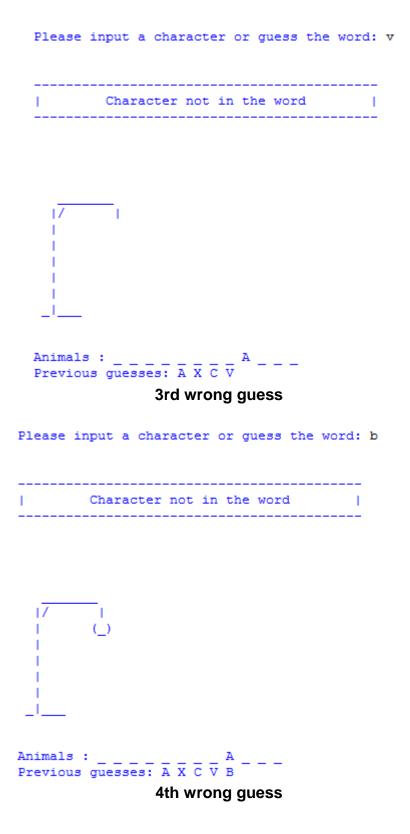
- 1. If the character guess is correct, the blanks get updated with the character.
- 2. Program shows what characters have already been guessed.

```
1. Animals
2. Fruits
3. Country
4. Flowers
Choose a category [1-4]: 1
The category you have choosen is: Animals
The word to guess is 12 characters long
Animals : _____ Please input a character or guess the word: a
Animals : _ _ _ _ _ A _ _ _ A _ _ _ Previous guesses: A
Please input a character or guess the word:
```

1. If the character guess is wrong, a message saying "Character not in the word" is displayed and the corresponding ASCII art for the Hangman appears. The following if the program screen capture showing what happens when the player cannot guess the word even 9 wrong inputs.







Please input a character or guess the word: w | Character not in the word | Animals : _ _ _ _ _ _ _ _ A _ _ _ A _ _ _ _ Previous guesses: A X C V B W _ _ _ 5th wrong guess Please input a character or guess the word: y | Character not in the word | Animals : _ _ _ _ _ _ _ _ A _ _ _ A _ _ _ _ Previous guesses: A X C V B W Y 6th wrong guess

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Please input a character or guess the word: q | Character not in the word | Animals : _ _ _ _ _ _ A _ _ _ A _ _ _ Previous guesses: A X C V B W Y Q 7th wrong guess Please input a character or guess the word: ${\bf k}$ | Character not in the word | Animals : _ _ _ _ _ _ _ A _ _ U _ Previous guesses: A X C V B W Y Q U K 8th wrong guess

1. Program testing showing what happens when player is able to guess the word.

```
1. Animals
2. Fruits
3. Country
4. Flowers
Choose a category [1-4]: 2
The category you have choosen is: Fruits
The word to guess is 6 characters long
Fruits : _ _
Please input a character or guess the word: a
Fruits : _ A _ A _ A Previous guesses: A
```

```
Fruits : _ A _ A _ A
Previous guesses: A
Please input a character or guess the word: b
Fruits : B A _ A _ A
Previous guesses: A B
Please input a character or guess the word: n
Fruits : B A N A N A
    (_)
    \Ī/
    / \ YOU WIN!
Would you like to play again? (Y/N):
```

1. Player is allowed to guess the whole word.

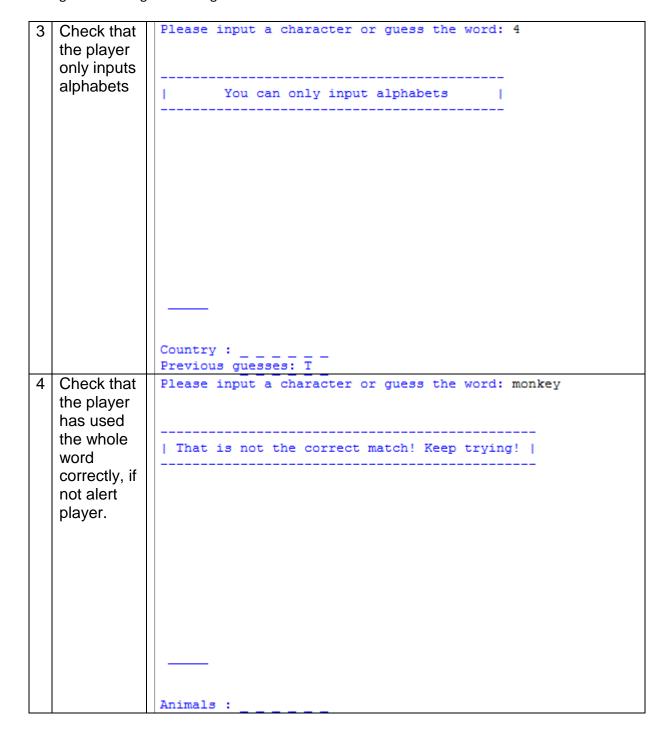
```
1. Animals
2. Fruits
3. Country
4. Flowers
Choose a category [1-4]: 4
The category you have choosen is: Flowers
The word to guess is 5 characters long
Flowers: _ _ _ _ _ Please input a character or guess the word: t
Flowers : T ___ _ _ Previous guesses: T
```

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Would you like to play again? (Y/N):

Test case #6 (Validations & Corresponding Alert messages)

<u>#</u>	<u># Validations & Alert messages</u>	
1	Check that the player input	Please input a character or guess the word: t
	character	Character not in the word
	is not in the word	
	and alert	
	player	
	. ,	
		Country :
	0	Previous guesses: T
2	Check if player has	Please input a character or guess the word: t
	already	
	guessed	You have already guessed this character
	the character.	<u></u>
	Character.	
		The player has already guessed the
		alphabet "T" previously, therefore the program will prompt player that "T" has
		already been guessed.
		Country: Previous guesses: T



```
5 Check that
               Please input a character or guess the word: p&&&&%%^^333k
   player
   inputs only
   a single
               | Please enter either a single character or whole word |
   character
  or the
  whole
   word.
   Prompt
   error if
   otherwise.
               Country :
              1. Animals
6 Player is
               2. Fruits
   only able
               3. Country
  to choose
               4. Flowers
  the
               Choose a category [1-4]: flower
   category
               Please enter a choice between 1 and 4.
   between 1
  to 4 and
              1. Animals
               2. Fruits
  nothing
               3. Country
   else
               4. Flowers
               Choose a category [1-4]: 9
               Please enter a choice between 1 and 4.
               1. Animals
               2. Fruits
               3. Country
               4. Flowers
               Choose a category [1-4]: %%%%5
               Please enter a choice between 1 and 4.
               1. Animals
               2. Fruits
               3. Country
               4. Flowers
               Choose a category [1-4]: 3
               The category you have choosen is: Country
               The word to guess is 7 characters long
```