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| FLOWCHART |
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| HANGMAN | | | |
| S/no. | Test cases | Expected result | Actual result |
|  | Enter name of game | Welcome screen display |  |
|  | Enter topic of word you want to choose – enter invalid topic | Display  Error |  |
|  | Enter topic of word you want to choose – enter correct topic | Move on to next step |  |
|  | Enter invalid character (anything other than alphabets) | Display error and prompt user to re-enter input |  |
|  | Enter  valid character (alphabets / word) | Move on to next step |  |
|  | Enter alphabet / word previously entered | Display error and prompt player to re-enter input |  |
|  | Ask for hint | Randomly display an alphabet from the original word in the partially blanked word |  |
|  | Keep on asking hint after he has run out of hint-tries | Display error |  |

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|  | Player has run out of  Chances | Ask if player wants to play again |  |
|  | Player has won the game | Ask if player wants to play again |  |

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| Log count | LOGS |
|  | \*\*\*\*\*GOOD MORNING !\*\*\*\*  THESE ARE THE GAMES AVAILABLE. PLEASE CHOOSE ONE OF THE FOLLOWING:  Tic Tac Toe  Hang Man  Mastermind  Sudoku  Tiles  PLEASE ENTER WHAT GAME YOU WANT TO PLAY: hangman  HANGMAN - YOU HAVE ENTERED AN INVALID NAME. PLEASE ENTER THE NAME FROM THE LIST SHOWN ABOVE.  PLEASE ENTER WHAT GAME YOU WANT TO PLAY: hang man  Welcome to Hangman! In this game, you will have to chose a topic from  1.Birds  2.Animals  3.Gemstones  4.Sports  5.Countries  Based on your choice of topic, a random word will be generated for you to guess  You will be given 6 chances to correctly guess the word.  If you guess an alphabet correctly, no chances will be deducted. Else, 1 chance will be deducted.  You will also be given hints, based on the length of the word. To ask for a hint, just enter "hint" Each hint will result in a deduction of 1 chance.  Since this is a simple game, you will not be able to quit during a game.  WHAT TOPIC DO YOU WANT TO GUESS?: aeroplanes  SORRY, BUT "AEROPLANES" IS AN INVALID KEYWORD.  YOU CAN ONLY ENTER ONE THE FOLLOWING KEYWORDS: "ANIMALS", "BIRDS", "GEMSTONES", "SPORTS", OR "COUNTRIES"  WHAT TOPIC DO YOU WANT TO GUESS?: ships  SORRY, BUT "SHIPS" IS AN INVALID KEYWORD.  YOU CAN ONLY ENTER ONE THE FOLLOWING KEYWORDS: "ANIMALS", "BIRDS", "GEMSTONES", "SPORTS", OR "COUNTRIES"  WHAT TOPIC DO YOU WANT TO GUESS?: birds  SINCE THE FOLLOWING WORD IS A 4 ALPHABET WORD, YOU WILL ONLY GET 1 HINT(S)  NUMBER OF HINTS: 1  NUMBER OF TRIES: 6  \_ \_ c \_  PLEASE ENTER ALPHABET: 1  SORRY, BUT YOU CANNOT ENTER '1' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: @  SORRY, BUT YOU CANNOT ENTER '@' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: #  SORRY, BUT YOU CANNOT ENTER '#' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: 13241  SORRY, BUT YOU CANNOT ENTER '13241' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET:  SORRY, BUT YOU CANNOT ENTER '' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: ^@#^%$%!$%@%^#  SORRY, BUT YOU CANNOT ENTER '^@#^%$%!$%@%^#' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: a  NUMBER OF HINTS: 1  NUMBER OF TRIES: 5  \_ \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a']  PLEASE ENTER ALPHABET: e  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  \_ \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e']  PLEASE ENTER ALPHABET: d  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  d \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: a  YOU HAVE ALREADY ENTERED 'a', PLEASE ENTER ANOTHER ALPHABET.  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  d \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: a  YOU HAVE ALREADY ENTERED 'a', PLEASE ENTER ANOTHER ALPHABET.  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  d \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: e  YOU HAVE ALREADY ENTERED 'e', PLEASE ENTER ANOTHER ALPHABET.  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  d \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: d  YOU HAVE ALREADY ENTERED 'd', PLEASE ENTER ANOTHER ALPHABET.  NUMBER OF HINTS: 1  NUMBER OF TRIES: 4  d \_ c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: hint  NUMBER OF HINTS: 0  NUMBER OF TRIES: 3  d u c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd']  PLEASE ENTER ALPHABET: hint  SORRY, BUT YOU HAVE USED UP ALL OF YOUR HINTS. YOU CANNOT ASK FOR MORE HINTS  PLEASE ENTER ALPHABET: hint  SORRY, BUT YOU HAVE USED UP ALL OF YOUR HINTS. YOU CANNOT ASK FOR MORE HINTS  PLEASE ENTER ALPHABET: hint  SORRY, BUT YOU HAVE USED UP ALL OF YOUR HINTS. YOU CANNOT ASK FOR MORE HINTS  PLEASE ENTER ALPHABET: s  NUMBER OF HINTS: 0  NUMBER OF TRIES: 2  d u c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd', 's']  PLEASE ENTER ALPHABET: g  NUMBER OF HINTS: 0  NUMBER OF TRIES: 1  d u c \_  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 'd', 's', 'g']  PLEASE ENTER ALPHABET: h  SORRY YOU HAVE FINISHED ALL YOUR CHANCES.  THE WORD WAS 'duck'. DO YOU WANT TO PLAY AGAIN(Y/N)?: y  WHAT TOPIC DO YOU WANT TO GUESS?: sport  SINCE THE FOLLOWING WORD IS A 4 ALPHABET WORD, YOU WILL ONLY GET 1 HINT(S)  NUMBER OF HINTS: 1  NUMBER OF TRIES: 6  \_ \_ g \_  PLEASE ENTER ALPHABET: hint  NUMBER OF HINTS: 0  NUMBER OF TRIES: 5  \_ \_ g a  PLEASE ENTER ALPHABET: a  NUMBER OF HINTS: 0  NUMBER OF TRIES: 5  \_ \_ g a  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a']  PLEASE ENTER ALPHABET: e  NUMBER OF HINTS: 0  NUMBER OF TRIES: 4  \_ \_ g a  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e']  PLEASE ENTER ALPHABET: s  NUMBER OF HINTS: 0  NUMBER OF TRIES: 3  \_ \_ g a  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 's']  PLEASE ENTER ALPHABET: y  SORRY, BUT YOU CANNOT ENTER ' y' AS IT IS NOT AN ALPHABET. YOU CAN ONLY ENTER ALPHABETS / FULL WORD IF YOU KNOW WHAT THE WORD IS.  PLEASE ENTER ALPHABET: y  NUMBER OF HINTS: 0  NUMBER OF TRIES: 3  y \_ g a  WORDS / ALPHABETS THAT HAVE ALREADY BEEN ENTERED: ['a', 'e', 's', 'y']  PLEASE ENTER ALPHABET: yoga  Great work!  DO YOU WANT TO PLAY AGAIN(Y/N)?: n  YOU ARE NOW EXITING HANGMAN!  THANK YOU FOR PLAYING HANGMAN. DO CHECK OUT OUR OTHER GAMES!  WHAT OTHER GAME DO YOU WANT TO PLAY: |