**COMPUTER SCIENCE - MINI PROJECT**

**[ HANGMAN GAME ]**

BRIEF DESCRIPTION :-

* HANGMAN GAME – IS A GAME WHERE THE USER/PLAYER NEEDS TO GUESS LETTERS OF A WORD WHICH IS UNKNOWN TO THE USER WITH LIMITED NUMBER OF CHANCES.

CONCEPTS USED :-

* DICTIONARY
* IMPORT MODULES (RANOM,TIME,OS)
* LISTS,SETS
* FOR LOOPS
* WHILE LOOPS
* IF-ELSE CONDITIONS
* STRING FUNCTIONS LIKE –

1. isalpha()
2. upper()
3. join()

GAMEPLAY :-

PROCESSING :-

* USER NEEDS TO ANSWER IF HE/SHE WANTS TO PLAY THE GAME. DEPENDING ON THE INPUT EITHER OF THE OUTPUTS ARE GIVEN –

1. IF THE INPUT IS “Y” THEN THE GAME PROCEEDS FURTHER AND ASKS THE USER’S NAME
2. IF THE INPUT IS “N” THEN THE GAME ENDS AND SAYS ‘ HAVE A NICE DAY, GOOD BYE’

* THEN THE PLAYER IS ASKED TO SELECT A LEVEL OF HIS/HER CHOICE (E,M,H)
* BASED ON THE INPUT A WORD IS RANDOMLY CHOSEN FROM THE DICTIONARY FOR THAT PARTICULAR LEVEL

AND PRINTED WITH ‘\_’ .

* THEN THE USER IS ASKED TO GUESS LETTERS. IF THE GUESS IS RIGHT THEN HE DOESNT LOSE CHANCES AND ALSO THE WORD WITH ‘\_’ IS REPLACED BY THAT RIGHT LETTER IN THE RIGHT POSITION.
* IF THE GUESS WAS A WRONG GUESS THEN THE USER LOSES A CHANCE AND THE HANGMAN FIGURE IS PRINTED ON THE SCREEN FOR EVERY WRONG GUESS.
* ALL THE WRONG GUESSES ARE PRINTED AS LIST SO THE USER KNOWS WHAT HE HAS GUESSED.
* IF THE USER GUESSES THE WORD WITHIN 9 CHANCES OR ON THE NINTH CHANCE THEN CONGRATULATIONS MESSAGE IS GIVEN AS OUTPUT , ELSE A COMPLIMENTING MESSAGE IS GIVEN TO THE OUTPUT.
* THE USER/PLAYER IS ASKED TO RATE THE GAME ON 10 WITH FLOAT VALUES . FRO THE ENTERED VALUE , BASED ON THE INPUT AN OUTPUT IS GIVEN ON THE SCREEN .
* AFTER FINISHING THE FIRST GAME THE USER IS GIVEN A CHANCE IF HE/SHE WISHES TO PLAY ONCE AGAIN.

BASED ON THE INPUT EITHER OF THE STEPS ARE EXECUTED:

1. IF THE INPUT IS ‘Y’ THEN HE/SHE CAN PLAY IT ONCE AGAIN, THE CODE IS EXECUTED AGAIN.
2. IF THE INPUT IS ‘N’ THEN THE GAME ENDS WITH A MESSADGE ‘NICE PLAYING,BYE’

LIMITATIONS OF THE CODE :-

* DUE TO USAGE OF RANDOM FUNCTION THERE IS A POSSIBILITY THAT THE SAME WORD CAN BE REPEATED BACK TO BACK .
* THE CODE WRITTEN WORKS ALRIGHT FOR SINGLE WORDS LIKE (eg – BALL,BAT,FIELD) AND NOT FOR 2 WORDS LIKE (eg – WEST BENGAL,SOUTH AMERICA)

[ EXPLANATION FOR EVERY LINE IN THE CODE IS GIVEN IN THE FURTHER PAGES .

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