

Pseudocode

IMPORT library called random

IMPORT library called sys

CREATE ARRAY called tries to store the list of guesses of the user

DEFINE FUNCTION called difficulty(answer)

 WHILE Loop is True

 CREATE a GLOBAL VARIABLE called ran_no

 IF answer != 1 AND answer !=2 AND answer != 3

 OUTPUT "Invalid input. Please Re-enter"

 Calling FUNCTION main_two()

 ELSE

 IF answer == 1

 SET max_number = 10

 SET level = answer

 SET ran_no = Generate random number

 Calling FUNCTION get_guess(max_number, level)

 ENDIF

 IF answer == 2

 SET max_number = 50

 SET level = answer

 SET ran_no = Generate random number

 Calling FUNCTION get_guess (max_number, level)

 ENDIF

 IF answer == 3

 SET max_number = 100

 SET level = answer

 SET ran_no = Generate random number

 Calling FUNCTION get_guess (max_number, level)

 ENDIF

 ENDIF

 END WHILE Loop

RETURN the value ran_no

DEFINE FUNCTION called mode(level)

IF level == 1

OUTPUT "Easy mode 0 to 10"

ELSEIF level == 2

OUTPUT "Medium mode 0 to 50"

ELSEIF level == 3

OUTPUT "Hard mode 0 to 100"

ENDIF

RETURN the value level

DEFINE FUNCTION called get_guess(max_number, level)

Calling FUNCTION mode(level)

WHILE Loop is True

TRY

INPUT Users guess

STORE the INPUT in the VARIABLE guess

STORE the Number of Guesses in the ARRAY tries

EXCEPT ValueError

OUTPUT "Please enter a number"

ELSE

IF guess > max_number

OUTPUT "Guess? Between 0 to max_number"

ELSE

Calling FUNCTION check_guess(guess)

ENDIF

END TRY-EXCEPT-ELSE

END WHILE Loop

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DEFINE FUNCTION called check_guess(guess)

    CREATE VARIABLE called turn

    SET turn = True

    WHILE Loop is turns

        IF guess == ran_no

            OUTPUT "Correct"

            SET turn = False

            Calling FUNCTION last_one()

        ELSEIF guess < ran_no

            OUTPUT "Too Low"

        ELSEIF guess > ran_no

            OUTPUT "Too High"

        ENDIF

    END WHILE Loop

DEFINE FUNCTION called main_one()

    OUTPUT "Welcome to Guess Master PRO 2016"

    OUTPUT "Select Difficulty

        1.Easy

        2.Medium

        3.Hard"

DEFINE FUNCTION called main_two()

    WHILE Loop is True

        TRY

            Ask the user to INPUT the difficulty level

            STORE the INPUT in VARIABLE answer

            Calling FUNCTION difficulty(answer)

        EXCEPT ValueError

            OUTPUT "Please re-enter. 1 for Easy mode or 2 for Medium mode or
            3 for Hard mode"

    END TRY-EXCEPT
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END WHILE Loop

DEFINE FUNCTION Called last_one()

    OUTPUT "You took, [No.of Guesses user took], Guesses"

    OUTPUT "Your Guess: [Guessed list]"

    Calling FUNCTION replay()

DEFINE FUNCTION called replay()

    OUTPUT "Do you wish to play again?"

    WHILE Loop is True

        CREATE VARIABLE called play

        Ask the user to INPUT "If YES, press (y). If NO, press (n)"

        SET play = to the users INPUT

        IF play == "y"

            OUTPUT "Lets Start Playing!"

            CLEAR the data in ARRAY Tries

            Calling FUNCTION main_one()

            Calling FUNCTION main_two()

        ELSEIF play == "n"

            OUTPUT "Thank you for playing Guess Master PRO 2016"

            OUTPUT "See you soon"

            CLOSE the program

        ELSE

            OUTPUT "Please Re-enter"

        ENDIF

    END WHILE Loop

Calling FUNCTION main_one()

Calling FUNCTION main_two()
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