

KULLIYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY

CSC 1100 ELEMENTS OF PROGRAMMING SEMESTER 1, 2017/2018

SECTION 4

GUESSING GAME: MASTERMIND

GROUP NAME: IBN AL-NAFIS

PREPARED BY:

NAME	MATRIC NO.
Ahmad Zaidan bin Adnan	1718733
Muhammad Salikin bin Ismail	1711083
Mohd. Syafiq Asyraf bin Samsudin	1715447
Mohamad Zaki bin Jaafar	1719207

LECTURER

MDM. SURIANI BINTI SULAIMAN

DUE

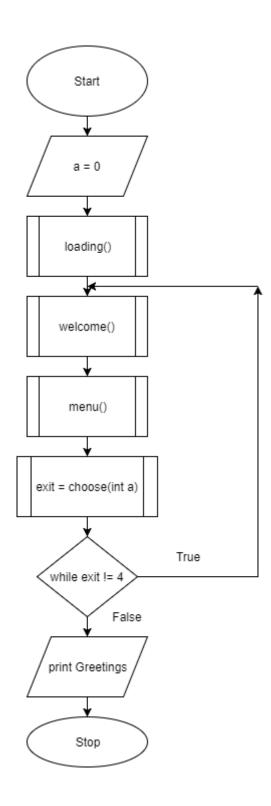
25 DECEMBER 2017

INTRODUCTION

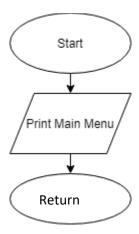
The project that we had done is developing a program that brings the board game Mastermind into an interactive program on the computer. The program developed is called Guessing Game: Mastermind. The only difference between the original board game and the program is the board game requires two players who are the code maker and the code breaker while the program only requires a code breaker because the code is designed by the program itself. Basically the game gives the player ten turns to guess the four correct colours ordered by the program. Moreover, the program gives hints to the player during the game. The hints are the number of correct colours in the right position and the number of correct colours in the wrong position. In order to win the game, the player must guess the correct colours in the correct positions for ten tries or less. The score for the player is calculated referring to the number of turns used.

FLOWCHART OF THE PROGRAM

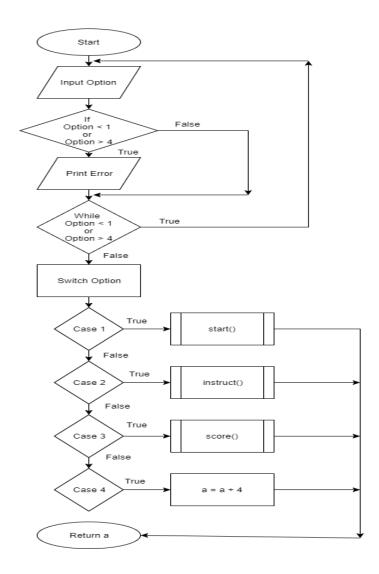
main()



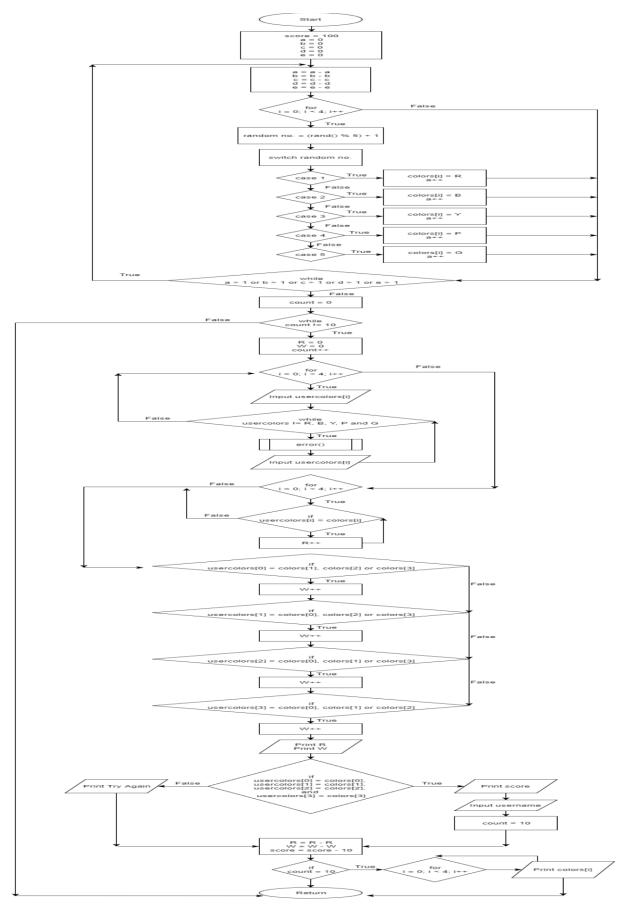
menu()



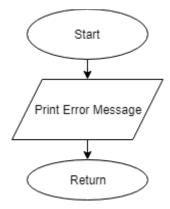
choose()



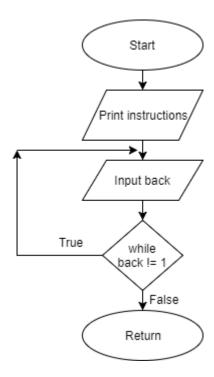
start()



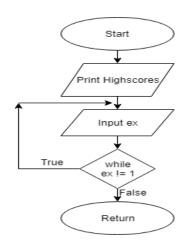
error()



instruct()



score()



LIST OF FUNCTIONS

1. main()

This function calls the important functions in the program.

2. loading()

This function shows the loading bar of the program.

3. welcome()

This function shows the title of the game which is Mastermind.

4. menu()

This function shows all the options in the main menu.

5. choose()

This function lets the user choose the options in the main menu before.

6. start()

This function starts the game which is the main purpose of the program.

7. error()

This function prints the error message when the user enters the wrong inputs.

8. instruct()

This function shows the instructions of the game.

9. score()

This function shows the high scores of the players in the game.

SCREENSHOTS OF THE PROGRAM

1. Main Menu

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■ C\Users\user\Desktop\Programming 2017\Project\Mastermind\testexee —  

*****WELCOME TO MASTERMIND GUESSING GAME*****

MAIN MENU:

1 - START

2 - INSTRUCTION

3 - HIGH SCORE

4 - EXIT

Choose Your Option:
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2. The game

3. Instruction of the game

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The Computer has selected a secret combination of 4 colors.

1 - The computer has selected a secret combination of 4 colors.

2 - You have to guess that combination in 10 or fewer tries to win.

3 - To create your guess, write the indicator for each color until the fourth colour.

4 - Each time you submit a guess the program will tell how many are right color and right position & right color but wrong position.

5 - If your guess scores 4 right colors on the right position within 10 tries, you win.

Enter 1 to go to main menu:
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4. High scores of the game