Project Programming Fundamental

**Hangman**

**Algorithm:**

1. Start,
2. Print menu
3. Enter 1 to start the game
4. Enter 2 for instructions
5. Enter 3 to end the game
6. If 1 is pressed
7. Enter 1 for Single Player
8. Enter 2 for Multiplayer
9. If 1 is Pressed
10. Print Choose your level (Easy, Normal, Difficult),
11. Enter 1 for easy
12. Enter 2 for normal
13. Enter 3 for difficult
14. If 1 is pressed list of easy words will be shown from which a word is selected
15. Player will guess the word.
16. If the word is correct
17. Print score out of 100 and print you have won the game and go to line number 29
18. If the word is wrong print Try again and subtract 10 out of 100
19. If the word is wrong again go to line number 15.
20. If the word is wrong 10 time print the correct word and print you have lost the game and go to line number 29
21. If 2 is pressed list of normal words will be shown from which a word is selected and go to line number 15
22. If 3 is pressed list of difficult words will be shown from which a word is selected and go to line number 15
23. If 2 is pressed for multiplayer
24. First player will enter the word and a hint for second player
25. Second player will guess the word and go to line number 16
26. If 2 is pressed for instruction
27. Print the instruction and then go to line number 29

**For Single Player**:

First player will give a word with hint, the second player will guess the word if the word is wrong, try again, second player will have 10 chances to guess the word if all chance are used then the

game will end and the Score will be shown, if the word is right the score will be shown.

**For Multi Player:**

System will give you a list of word, you have to choose the word from the list, if the word is correct the score will be shown but if the word is wrong system will let you try once again, the player will have 10 chances to guess the word if all chances are used the system will show the result.

1. If 3 is pressed to end the game go to line number 32
2. Ask user if want to play again press 1 or to end the game press 2
3. If 1 pressed to play go to line number 2
4. If 2 is pressed end the game by going to line number 32.
5. end

**FLOW CHART**

1 PLAYER

GUESS WORD == CORRECT WORD

PRINT MENU

1 PLAYER Hint

PRINT WRONG SCORE

PRINT CORRECT SCORE

INSTRUCTION

2 PLAYER

CORRECT SCORE

START GAME

PRESSED 2

INSTRUCTION

END GAME

PLAY AGAIN

IF PRESSED 1

PRESSED 3

END OF GAME

SINGLE PLAYER

MULTIPLE PLAYER

LEVEL

EASY

DIFFICULT

NORMAL

WORD

**Codes**

using System;

namespace Project\_Hangman

{

class Program

{

static void Main(string[] args)

{

Loop:

Console.Clear();

Console.WriteLine("Project Hangman!");

Console.WriteLine(" Welcome Hangman");

Console.WriteLine("Press 1 to Start the Game.");

Console.WriteLine("Press 2 for Instruction.");

Console.WriteLine("Press 3 to Exit the Game.");

int first\_button = int.Parse(Console.ReadLine());

string[] word = { "a" };

int index = 0;

if (first\_button == 1)

{

Console.WriteLine("For Single Player Press 1\nFor Multiplayer Press 2");

int player = int.Parse(Console.ReadLine());

if (player==1)

{

Console.WriteLine("Choose level of game by pressing the number\n1. Easy\n2. Normal\n3. Difficult");

int level = int.Parse(Console.ReadLine());

Console.WriteLine("Write any word from the list given below");

switch (level)

{

case 1:

word = new string[10] { "phone", "jug", "doggy", "space", "moon", "book", "chair", "kitchen", "glass", "laptop" };

Random rand = new Random();

index = rand.Next(word.Length);

Console.WriteLine("phone, jug, doggy, space, moon, book, chair, kitchen, glass, laptop");

break;

case 2:

word = new string[10] { "character", "country", "university", "conquest", "dragonstone", "defensive", "strength", "thousand", "revierside", "processor" };

Random rand2 = new Random();

index = rand2.Next(word.Length);

Console.WriteLine("character, country, university, conquest,dragonstone, defensive, strength, thousand, revierside, processor");

break;

case 3:

word = new string[10] { "fundamental", "nutritional", "license", "expensive", "archmaester", "interface", "modification", "prototype", "targaryen", "argument" };

Random rand3 = new Random();

index = rand3.Next(word.Length);

Console.WriteLine("fundamental, nutritional, license, expensive, archmaester, interface, modification, prototype, targaryen, argument");

break;

default:

Console.WriteLine("You have Entered the Wrong digit Press enter to go back to Menu");

Console.ReadLine();

goto Loop;

}

}

else if (player==2)

{

Console.Clear();

Console.WriteLine("First Player Enter the Word");

word = new string[1] { Console.ReadLine() };

Console.WriteLine("First Player Enter the hint for Second Player");

string hint = Console.ReadLine();

Console.Clear();

Console.WriteLine("Hint is "+hint);

}

string first\_word = $"{word[index]}";

string wordreplace = first\_word.Replace(first\_word, "\*\*\*\*\*\*\*");

Console.WriteLine(wordreplace);

int guesscount = 0;

int Score = 100;

string Guessword = Console.ReadLine();

do

{

if (first\_word == Guessword)

{

Console.Clear();

Console.WriteLine("\nCorrect Word. You win.");

Console.WriteLine("Guess word is "+first\_word);

Console.WriteLine("Your Score is " + Score + " out of 100");

}

else if (first\_word != Guessword)

{

Console.WriteLine("Wrong Word Try Again.");

guesscount++;

Score-=10;

Guessword = Console.ReadLine();

}

} while (first\_word!= Guessword && guesscount <=10);

if (first\_word == Guessword)

{

Console.Clear();

Console.WriteLine("Correct Word. You win.");

Console.WriteLine("Guess word is " + first\_word);

Console.WriteLine("Your Score is " + Score + " out of 100");

}

else

{

Console.Clear();

Console.WriteLine("Wrong Words. You have lost the game.");

Console.WriteLine("Correct word is " + first\_word);

}

Console.WriteLine("\nif you want to play again press 1 or to end the game press 2");

int menu = int.Parse(Console.ReadLine());

switch (menu)

{

case 1:

Console.Clear();

goto Loop;

case 2:

break;

default:

Console.WriteLine("You have Entered the Wrong digit Press enter to go back to Menu");

Console.ReadLine();

goto Loop;

}

}

else if (first\_button == 2)

{

Console.Clear();

Console.WriteLine(" Game Instructions");

Console.WriteLine();

Console.WriteLine("For Single Player:\n\nFirst player will give a word with hint, the second player will guess the word\n" +

"if the word is wrong try again, second player will have 10 chances to guess the word if all chance are used then the \n" +

"game will end and the Score will be shown, if the word is right the score will be shown.\n\n" +

"For Multi Player:\n\nSystem will give you a list of word, you have to choose the word from the \n" +

"list, if the word is correct the score will be shown but if the word is wrong system will let you try once again, \n" +

"the player will have 10 chances to guess the word if all chances are used the system will show the result.\n");

Console.WriteLine("\nif you want to play again press 1 or to end the game press 2");

int menu = int.Parse(Console.ReadLine());

switch (menu)

{

case 1:

goto Loop;

case 2:

break;

default:

Console.WriteLine("\nYou have Entered the Wrong digit Press enter to go back to Menu");

Console.ReadLine();

goto Loop;

}

}

else if (first\_button==3)

{

Console.Clear();

Console.WriteLine("\nPress Enter to Exit the Game");

}

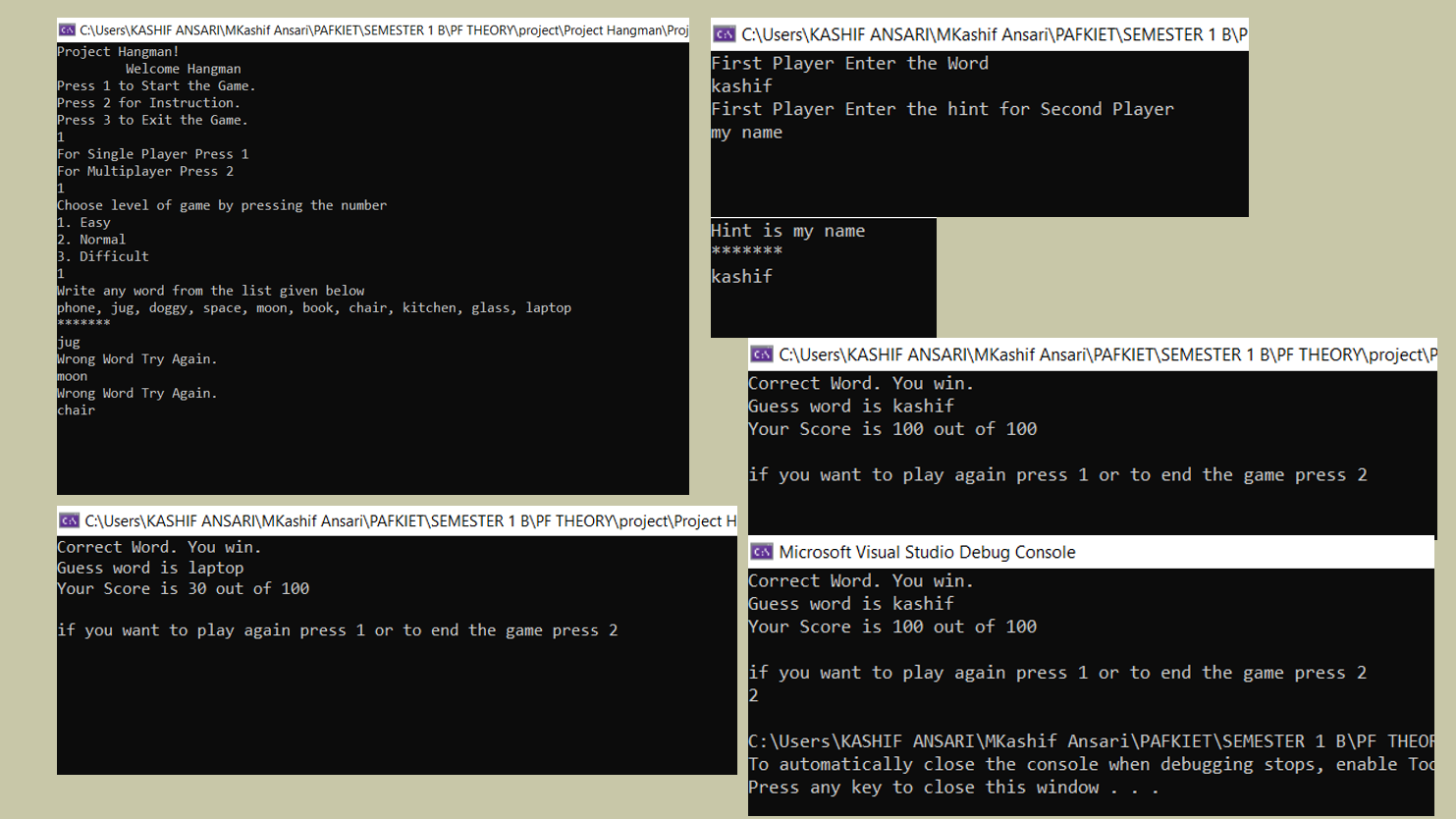
Console.ReadKey();

}

}

}

**OutPut**

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