Game Hub

Generated by Doxygen 1.9.6

Chapter 1

Game Hub

Chapter 2

Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

Chapter 4

Data Structure Documentation

4.1 coordinate Struct Reference

`#include <AdvWorld.h>`

Data Fields

- int x
- int y
- int direction

4.1.1 Field Documentation

4.1.1.1 direction

`int direction`

4.1.1.2 x

`int x`

4.1.1.3 y

`int y`

The documentation for this struct was generated from the following file:

- AdvWorld.h

Chapter 5

File Documentation

5.1 AdvWorld.h File Reference

This file contains code for the adventurous world.

```
#include <stdio.h>
#include <time.h>
#include <stdlib.h>
#include <conio.h>
#include <ctype.h>
#include <windows.h>
#include <process.h>
#include <unistd.h>
#include <stdbool.h>
#include "finalround.h"
```

Data Structures

- struct coordinate

Macros

- #define UP 72
- #define DOWN 80
- #define LEFT 75
- #define RIGHT 77
- #define NUM_WORDS 18

  for the memory maze
- #define WORD_LENGTH 20
- #define TIME_LIMIT 60

Typedefs

- typedef struct coordinate coordinate

Functions

- void wordgame ()

  Variables to store the star.
- void record ()
- void load ()

  loading animation
- void Delay (long double)
- void Move ()
- void Food ()
- int Score ()
- void r2title ()
- void gotoxy (int x, int y)
- void GotoXY (int x, int y)
- void Bend ()
- void Boarder ()
- void Down ()
- void Left ()
- void About ()
- void Up ()
- void Right ()
- void ExitGame ()
- int Scoreonly ()
- void awtitle ()
- void r1 ()
- void Start ()
- void r1title ()
- void r2abt ()

  GotoXY(10,12);.
- int win (char comp, char p1)

  for rock paper scissors comparision
- int aworld ()
- void Guess ()
- void r3 ()
- void r3abt ()

Variables

- int length
- int bend_no
- int len
- char key
- int life
- char p [20]
- coordinate head
- coordinate bend [500]
- coordinate food
- coordinate body [30]
- int i

  Array to track which words have been used.
- int j
- char words [NUM_WORDS][WORD_LENGTH]
- bool used [NUM_WORDS]

Array to store the words.

- int numCorrect = 0
- char guess [WORD_LENGTH]

Loop variables and score counter.

- time_t startTime

Variable to store player's guess.

- time_t endTime

5.1.1 Detailed Description

This file contains code for the adventurous world.

5.1.2 Macro Definition Documentation

5.1.2.1 DOWN

```
#define DOWN 80
```

5.1.2.2 LEFT

```
#define LEFT 75
```

5.1.2.3 NUM_WORDS

```
#define NUM_WORDS 18
```

for the memory maze

5.1.2.4 RIGHT

```
#define RIGHT 77
```

5.1.2.5 TIME_LIMIT

```
#define TIME_LIMIT 60
```

5.1.2.6 UP

```
#define UP 72
```

5.1.2.7 WORD_LENGTH

```
#define WORD_LENGTH 20
```

5.1.3 Typedef Documentation

5.1.3.1 coordinate

```
typedef struct coordinate coordinate
```

5.1.4 Function Documentation

5.1.4.1 About()

```
void About ( )
```

5.1.4.2 aworld()

```
int aworld ( )
```

comparing the score

to generate food coordinates initially

number of extra lives

initialing initial bend coordinate

5.1.4.3 awtitle()

```
void awtitle ( )
```

5.1.4.4 Bend()

```
void Bend ( )
```

GotoXY(bend[i].x,(bend[i].y-j)); printf("∗");

GotoXY((bend[i].x+j),bend[i].y); printf("∗");

((bend[i].x-j),bend[i].y); printf("∗");

5.1.4.5 Boarder()

```
void Boarder ( )
```

displaying food

5.1.4.6 Delay()

```
void Delay (
            long double k )
```

5.1.4.7 Down()

```
void Down ( )
```

5.1.4.8 ExitGame()

```
void ExitGame ( )
```

starts with 4 because it needs minimum 4 element to touch its own body

check's value increases as the coordinates of head is equal to any other body coordinate

5.1.4.9 Food()

```
void Food ( )
```

to create food for the first time coz global variable are initialized with 0

5.1.4.10 gotoxy()

```
void gotoxy (
            int x,
            int y )
```

5.1.4.11 GotoXY()

```
void GotoXY (
             int x,
             int y )
```

5.1.4.12 Guess()

```
void Guess ( )
```

Record the start time

Check if the guess is correct

Update the end time

5.1.4.13 Left()

```
void Left ( )
```

5.1.4.14 load()

```
void load ( )
```

loading animation

5.1.4.15 Move()

```
void Move ( )
```

5.1.4.16 r1()

```
void r1 ( )
```

5.1.4.17 r1title()

```
void r1title ( )
```

5.1.4.18 r2abt()

```
void r2abt ( )
```

GotoXY(10,12);.

5.1.4.19 r2title()

```
void r2title ( )
```

5.1.4.20 r3()

```
void r3 ( )
```

5.1.4.21 r3abt()

```
void r3abt ( )
```

5.1.4.22 record()

```
void record ( )
```

5.1.4.23 Right()

```
void Right ( )
```

GotoXY((head.x-i),head.y);

[len].x=head.x-i; body[len].y=head.y;

5.1.4.24 Score()

```
int Score ( )
```

5.1.4.25 Scoreonly()

```
int Scoreonly ( )
```

5.1.4.26 Start()

```
void Start ( )
```

5.1.4.27 Up()

```
void Up ( )
```

5.1.4.28 win()

```
int win (
            char comp,
            char p1 )
```

for rock paper scissors comparision

5.1.4.29 wordgame()

```
void wordgame ( )
```

Variables to store the star.

Declare variables

Initialize the arrays

Populate the array of words

Print game instructions

Display the words to the player

Wait for 1 second before clearing the screen

Clear the screen

Get player's guesses

Display the player's score

5.1.5 Variable Documentation

5.1.5.1 bend

```
coordinate bend[500]
```

5.1.5.2 bend_no

```
int bend_no
```

5.1.5.3 body

```
coordinate body[30]
```

5.1.5.4 endTime

```
time_t endTime
```

5.1.5.5 food

```
coordinate food
```

5.1.5.6 guess

```
char guess[WORD_LENGTH]
```

Loop variables and score counter.

5.1.5.7 head

```
coordinate head
```

5.1.5.8 i

```
int i
```

Array to track which words have been used.

5.1.5.9 j

```
int j
```

5.1.5.10 key

```
char key
```

5.1.5.11 len

```
int len
```

5.1.5.12 length

```
int length
```

5.1.5.13 life

```
int life
```

5.1.5.14 numCorrect

```
int numCorrect = 0
```

5.1.5.15 p

```
char p[20]
```

5.1.5.16 startTime

```
time_t startTime
```

Variable to store player's guess.

5.1.5.17 used

```
bool used[NUM_WORDS]
```

Array to store the words.

5.1.5.18 words

```
char words[NUM_WORDS][WORD_LENGTH]
```

5.2 AdvWorld.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <time.h>
00003 #include <stdlib.h>
00004 #include <conio.h>
00005 #include <time.h>
00006 #include <ctype.h>
00007 #include <time.h>
00008 #include <windows.h>
00009 #include <process.h>
00010 #include <unistd.h>
00011 #include <stdbool.h>
00012 #include "finalround.h"
00013
00014 #define UP 72
00015 #define DOWN 80
00016 #define LEFT 75
00017 #define RIGHT 77
00018
00019 int length;
00020 int bend_no;
00021 int len;
00022 char key;
00023 void wordgame();
00024 void record();
00025 void load();
00026 int life;
00027 void Delay(long double);
00028 void Move();
00029 void Food();
00030 int Score();
00031 void r2title();
00032 void gotoxy(int x, int y);
```

```
00033 void GotoXY(int x, int y);
00034 void Bend();
00035 void Boarder();
00036 void Down();
00037 void Left();
00038 void About();
00039 void Up();
00040 void Right();
00041 void ExitGame();
00042 int Scoreonly();
00043 void awtitle();
00044 void r1();
00045 void Start();
00046 void r1title();
00047 void r2abt();
00048 char p[20];
00049
00054 int generaterandomnuber(int n)
00055 {
00056     srand(time(NULL));
00060     return rand() % n;
00061 }
00063 int win(char comp, char p1)
00064 {
00065
00066     if (comp == p1)
00067     {
00068         return -1;
00069     }
00070     else if ((comp == 'r') && (p1 == 's'))
00071     {
00072
00073         return 1;
00074     }
00075     else if ((p1 == 'r') && (comp == 's'))
00076     {
00077         return 0;
00078     }
00079     else if ((comp == 'p') && (p1 == 'r'))
00080     {
00081
00082         return 1;
00083     }
00084     else if ((p1 == 'p') && (comp == 'r'))
00085     {
00086         return 0;
00087     }
00088     else if ((comp == 's') && (p1 == 'p'))
00089     {
00090
00091         return 1;
00092     }
00093     else if ((p1 == 's') && (comp == 'p'))
00094     {
00095         return 0;
00096     }
00097 }
00098 struct coordinate
00099 {
00100     int x;
00101     int y;
00102     int direction;
00103 };
00104
00105 typedef struct coordinate coordinate;
00106
00107 coordinate head, bend[500], food, body[30];
00108 int i, j;
00109 int aworld()
00110 {
00111     system("cls");
00112     int choice;
00113
00114     char ch;
00115
00116     char playerchar, compchar;
00117     int p1score = 0, compscore = 0;
00118     int temp;
00119     char dict[] = {'r', 'p', 's'};
00120     printf("\n");
00121     printf("\n");
00122     printf("\n");
00123
00124     Sleep(400);
00125     system("color A");
00126     printf("\n\n");
00127     printf("\n\n");
```

```
00128     printf("    !!!!!!!!!! !!!!!!!!   !!!           !!! !!!!!!!!!  !!!!     !!! !!!!!!!!  !!!!
      !!! !!!!!!!!!! !!!   !!!  !!!!!!!!!!    !!!!!!!!!!  !!!    !!!  !!!!!!!!!   \n");
00129     printf("    !!!    !!! !!!     !!! !!!         !!!  !!!        !!!!     !!! !!!       !!!!!!
      !!!     !!!     !!!   !!!  !!!     !!!   !!!     !!!  !!!    !!!  !!!          \n");
00130     printf("    !!!    !!! !!!     !!!  !!! 0   0 !!!   !!!        !! !!!   !!! !!!       !!! !!!
      !!!     !!!     !!!   !!!  !!!     !!!   !!!     !!!  !!!    !!!  !!!          \n");
00131     printf("    !!!!!!!!!! !!!     !!!   !!!     !!!    !!!!!!!!   !!! !!!  !!! !!!!!!!   !!!  !!!
      !!!     !!!     !!!   !!!  !!!!!!!!!     !!!     !!!  !!!    !!!  !!!!!!!!!   \n");
00132     printf("    !!!    !!! !!!     !!!    !!!   !!!     !!!        !!!  !!! !!! !!!       !!!   !!!
      !!!     !!!     !!!   !!!    !!!    !!!     !!!  !!!    !!!        !!!   \n");
00133     printf("    !!!    !!! !!!     !!!     !!! !!!      !!!        !!!   !!!!!! !!!       !!!
      !!!!!!     !!!     !!!   !!!  !!!     !!!   !!!     !!!  !!!    !!!        !!!   \n");
00134     printf("    !!!    !!! !!!!!!!!!         !!!!!       !!!!!!!!!  !!!     !!!! !!!!!!!!  !!!
      !!!!!     !!!     !!!!!!!!!  !!!      !!!  !!!!!!!!!!!  !!!!!!!!!!  !!!!!!!!!   \n\n");
00135     Sleep(800);
00136     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!!!!!!!!!!  !!!!!!!!!!!    !!!         !!!!!!!!!!   !
      \n");
00137     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!      !!!  !!!     !!!    !!!         !!!      !!!  !
      \n");
00138     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!      !!!  !!!     !!!    !!!         !!!      !!!  !
      \n");
00139     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!      !!!  !!!!!!!!!!    !!!         !!!      !!!  !
      \n");
00140     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!      !!!  !!!      !!!   !!!         !!!      !!!  !
      \n");
00141     printf("\t\t\t\t\t\t !!!   !!!   !!!  !!!      !!!  !!!       !!!  !!!         !!!      !!!  !
      \n");
00142     printf("\t\t\t\t\t\t !!!!!!!!!!!!!!!  !!!!!!!!!!!  !!!        !!! !!!!!!!!!!  !!!!!!!!!!   O
      \n");
00143     Sleep(2000);
00144     system("cls");
00145     system("color 4");
00146     printf("\n");
00147     printf("\n");
00148     printf("\n");
00149     printf("\n");
00150     printf("\n");
00151     printf("\n");
00152     printf("\n");
00153     printf("\n");
00154     printf("\n");
00155     printf("\n");
00156
00157     About();
00158
00159     printf("\n\n\n\n\t\t\t\t\t-Enter 1 to join the journey of  the Adventerous world\n\t\t\t\t\t-Enter
      2 to quit the game\n");
00160     printf("\n\n\n\n\t\t\t\t\t\t\t\tEnter  : ");
00161     scanf("%d", &choice);
00162     fgetc(stdin);
00163     switch (choice)
00164     {
00165     case 1:
00166         Start();
00167         break;
00168
00169     case 2:
00170         printf("Add function to return the Selecting");
00171         break;
00172
00173     default:
00174
00175         printf("Invalid comand!");
00176         system("color 1");
00177         Sleep(1000);
00178         system("cls");
00179         main();
00180     }
00181
00182     printf("\t\t\t\t \tPress any key to start! ");
00183     getch();
00184     system("cls");
00185     system("color 1");
00186
00187     r1title();
00188
00189     printf("\t\t\t\t\t\t\t _____________________________________\n");
00190     printf("\t\t\t\t\t\t\t|.                                    |\n");
00191     printf("\t\t\t\t\t\t\t|.    *CHHOOSE 1 FOR ROCK   | 0 |   |\n");
00192     printf("\t\t\t\t\t\t\t|.                                    |\n");
00193     printf("\t\t\t\t\t\t\t|.    *CHOOSE  2 FOR PAPER  |/ /|   |\n");
00194     printf("\t\t\t\t\t\t\t|.                                    |\n");
00195     printf("\t\t\t\t\t\t\t|.   *CHOOSE  3 FOR SCISSOR |>o |   |\n");
00196     printf("\t\t\t\t\t\t\t|.                                    |\n");
00197     printf("\t\t\t\t\t\t\t|._____________________________________|\n");
00198     printf("\n");
00199     int i;
```

```
00200     for (i = 0; i < 3; i++)
00201     {
00202
00203         printf("\t\t\t%s 's turn:  ", p);
00204         scanf("\t\t\t%d", &temp);
00205         getchar();
00206         playerchar = dict[temp - 1];
00207         printf("\t\t\tYou  choose %c \n   ", playerchar);
00208
00209         printf("\t\t\tcomputer's turn \n");
00210         temp = generaterandomnuber(3) + 1;
00211         compchar = dict[temp - 1];
00212         printf("\t\t\t Computer choose  %c  \n  ", compchar);
00213
00215         if (win(compchar, playerchar) == 1)
00216         {
00217             compscore += 1;
00218             printf("\t\t\t\t\t\t\t\t\t_____________________________\n");
00219             printf("\t\t\t\t\t\t\t\t\t|computer is taking lead |\n ");
00220             printf("\t\t\t\t\t\t\t\t\t|%s= %d \n               |\n", p, p1score);
00221             printf("\t\t\t\t\t\t\t\t\t|computer =%d  \n        |\n", compscore);
00222             printf("\t\t\t\t\t\t\t\t\t|_____________________________|\n");
00223             printf("\n");
00224             printf("\n");
00225         }
00226         else if (win(compchar, playerchar) == -1)
00227         {
00228             compscore += 1;
00229             p1score += 1;
00230             if (p1score == compscore)
00231             {
00232
00233                 printf("\t\t\t\t\t\t\t\t\t_____________________________\n");
00234                 printf("\t\t\t\t\t\t\t\t\t|Its a draw          |\n ");
00235                 printf("\t\t\t\t\t\t\t\t\t|%s= %d \n           |\n", p, p1score);
00236                 printf("\t\t\t\t\t\t\t\t\t|computer =%d  \n    |\n", compscore);
00237                 printf("\t\t\t\t\t\t\t\t\t|____________________|\n");
00238                 printf("\n");
00239                 printf("\n");
00240             }
00241             else if (p1score > compscore)
00242             {
00243                 printf("\t\t\t\t\t\t\t\t\t\t_______________________________\n");
00244                 printf("\t\t\t\t\t\t\t\t\t\t|you ARE TAKING THE LEAD  |\n ");
00245                 printf("\t\t\t\t\t\t\t\t\t\t|%s= %d                   |\n", p, p1score);
00246                 printf("\t\t\t\t\t\t\t\t\t\t|computer =%d             |\n ", compscore);
00247                 printf("\t\t\t\t\t\t\t\t\t\t|_______________________________|\n");
00248                 printf("\n");
00249                 printf("\n");
00250             }
00251             else
00252             {
00253                 printf("\t\t\t\t\t\t\t\t\t\t\t _________________________________\n");
00254                 printf("\t\t\t\t\t\t\t\t\t\t\t|COMPUTER IS TAKING THE LEAD  |\n ");
00255                 printf("\t\t\t\t\t\t\t\t\t\t\t|%s= %d                       |\n ", p, p1score);
00256                 printf("\t\t\t\t\t\t\t\t\t\t\t|computer =%d                 |\n ", compscore);
00257                 printf("\t\t\t\t\t\t\t\t\t\t\t|_____________________________|\n");
00258                 printf("\n");
00259                 printf("\n");
00260             }
00261         }
00262
00263         else
00264         {
00265             p1score += 1;
00266             printf("\t\t\t\t\t\t\t\t\t\t\t _____________________________\n");
00267             printf("\t\t\t\t\t\t\t\t\t\t\t|You are taking lead      |\n ");
00268             printf("\t\t\t\t\t\t\t\t\t\t\t|%s= %d                   |\n ", p, p1score);
00269             printf("\t\t\t\t\t\t\t\t\t\t\t|computer =%d             |\n ", compscore);
00270             printf("\t\t\t\t\t\t\t\t\t\t\t|_____________________________|\n");
00271         }
00272     }
00273     Sleep(500);
00274     system("cls");
00275     printf("\n");
00276     printf("\n");
00277     printf("\n");
00278     printf("\n");
00279     printf("\n");
00280     printf("\t_________Total Score_______\n");
00281     printf("\t|%s's score=%d            |\n", p, p1score);
00282     printf("\t|comp score=%d            |\n", compscore);
00283     printf("\t|_________________________|\n");
00284     if (p1score > compscore || p1score == compscore)
00285     {
00286         system("color 2");
00287         Sleep(700);
```

```
00288         printf("\n");
00289         printf("\n");
00290 
00291         printf("\t_____(: *|C | O | N | G | R | A | T | U | L | A| T | I | O | N | S|* :)_____\n");
00292         printf("\n");
00293         Sleep(700);
00294         printf("\t\t\tCongratulations, you have won the first round of the Round of Luck!\n");
00295         Sleep(700);
00296         printf("\t\t\tIt looks like luck was on your side this time. You  have earned the right to continue on to the next round.\n");
00297         printf("\t\t\tGood luck as you progress through the rest of the game!\n");
00298         Sleep(700);
00299         printf("\t\t\tThank you for playing and we hope you have a great time in Adventurous World.\n");
00300         Sleep(700);
00301 
00302         printf("\n");
00303         Sleep(700);
00304         printf("\t\t\tTo continue to the next round, simply press any key on your keyboard......\n");
00305         if (getch() == 27)
00306             exit(0);
00307 
00308         system("cls");
00309 
00310         char key;
00311 
00312         r2abt();
00313 
00314         system("cls");
00315 
00316         length = 5;
00317 
00318         head.x = 25;
00319 
00320         head.y = 20;
00321 
00322         head.direction = RIGHT;
00323 
00324         Boarder();
00325 
00326         Food();
00328 
00329         life = 3;
00331 
00332         bend[0] = head;
00333 
00334         Move();
00336     }
00337     else
00338     {
00339         Sleep(700);
00340         printf("\n");
00341         printf("\n");
00342         printf("\n\n");
00343 
00344 
      printf("\t\t_____(::::*SAD!!::::::)_____
00345         printf("\n\n");
00346         printf("\t\t\t\tUnfortunately, you have been eliminated from the Round of Luck
      \n ");
00347         printf("\t\t\t\tand will not be able to progress to any further levels in Adventurous World.
      \n ");
00348         printf("\t\t\t\t Better luck next time! Thank you for playing, and we hope you had fun.
      \n ");
00349         printf("\t\t\t\t  We hope to see you again soon for another exciting adventure!
      \n ");
00350         printf("\n");
00351         Sleep(5000);
00352         system("cls");
00353         main();
00354     }
00355 
00356     return 0;
00357 }
00358 void r1title()
00359 {
00360     system("color 0b");
00361     printf("\n");
00362     printf("\n");
00363     printf("\n");
00364     printf("\n");
00365     Sleep(700);
00366 
00367     printf("\t\t\t\t  ::::::   :::::: ::  :: ::     :: ::::::     :::::: ::::::    ::     ::  ::
      ::::::: ::  ::            \n");
00368     printf("\t\t\t\t  ::  ::   ::  :: ::  :: :: ::  :: ::   ::    ::  :: ::        ::     ::  :: ::
```

```
    ::  ::                \n");
00369     printf("\t\t\t\t  ::::::   ::  :: ::  :: ::  :: :: ::   :: __ ::  :: :::::: __ ::     ::  :: ::
    ::::                  \n");
00370     printf("\t\t\t\t  ::   ::  ::  :: ::  :: ::   :::: ::   ::    ::  :: ::        ::     ::  :: ::
    ::  ::                \n");
00371     printf("\t\t\t\t  ::    :: :::::: :::::: ::     :: ::::::     :::::: ::        :::::: :::::: ::
    :::: ::   ::              \n");
00372     printf("\t\t\t\t
    ____________________________________________________________________________________________\n");
00373     printf("\n");
00374     printf("\n");
00375 }
00376 void r1()
00377 {
00378     Sleep(800);
00379     system("color 9");
00380     printf("\t\t\t Welcome %s to the  First Round of Luck level of Adventurous World! \n  ", p);
00381     Sleep(500);
00382     printf("\t\t\t In this classic game of scissor, paper, rock, you'll face off against the computer
    in a series of rounds\n .");
00383     Sleep(500);
00384     printf("\t\t\t The rules are simple: scissor beats paper, paper beats rock, and rock beats
    scissor. \n ");
00385     Sleep(500);
00386     printf("\t\t\t If you win or draw against the computer, you'll move on to the next round.\n ");
00387
00388     printf("\n");
00389     Sleep(500);
00390     printf("\t\t\t Can you outsmart the computer and emerge victorious in the Round of Luck? Let's
    find out! Good luck and have fun! \n \n ");
00391     printf("\n");
00392     Sleep(500);
00393     printf("\n");
00394 }
00395 void Start()
00396 {
00397     system("cls");
00398     printf("\n");
00399     printf("\n");
00400     printf("\n");
00401     printf("\n");
00402     printf("\n");
00403     printf("\n");
00404     printf("\n");
00405     printf("\n");
00406     printf("\n");
00407     printf("\n");
00408     printf("\n");
00409     printf("\n");
00410     printf("\n");
00411     Sleep(700);
00412     printf("\t\t\t\t\t\t\t\tGreetings adventurer!! \n ");
00413     printf("\n\n");
00414     printf("\n\n");
00415     Sleep(700);
00416     printf("\t\t\t\t\tBefore we begin our journey through the Adventurous World,\n ");
00417     Sleep(700);
00418     printf("\t\t\t\t\tplease tell us your name so we may properly address you on your journey:   ");
00419     scanf(" \t %s", p);
00420     system("cls");
00421
00422     r1title();
00423     r1();
00424 }
00425 void About()
00426 {
00427
00428     printf("\t\t\t_____________________________________________________ABOUT THE
    GAME_____________________________________________________\n");
00429     printf("\n");
00430     printf("\n");
00431     Sleep(700);
00432     fflush(stdout);
00433     printf("\t\t\t Welcome to the Adventurous World,A place where you will embark on a journey of
    challenges and penalties,                                    \n");
00434     Sleep(700);
00435     printf("\t\t\t where you will struggle and overcome to come out victorious.
    \n \n");
00436     Sleep(1000);
00437     fflush(stdout);
00438     printf("\t\t\t As you enter this world, you will be facing rounds of diverse games, each one
    designed                                                \n");
00439     Sleep(700);
00440     printf("\t\t\t to test different skills and abilities
    \n");
00441     Sleep(700);
00442     printf("\t\t\t Each round you pass will bring you closer to the ultimate goal of completing the
```

```
    adventure.                                \n \n");
00443     fflush(stdout);
00444     Sleep(1000);
00445     printf("\t\t\t As you proceed through the rounds, you will encounter unknown territories and
    unexpected obstacles.          \n");
00446     Sleep(700);
00447     printf("\t\t\t So Be ready to face new challenges, and adapt to changing situations as you
    navigate your way through this exciting game          \n");
00448     Sleep(700);
00449     printf("\t\t\t be ware, one wrong move could lead to elimination,  So stay sharp  !
    \n");
00450     Sleep(1000);
00451     fflush(stdout);
00452     printf("\n  ");
00453     printf("\n");
00454
00455     printf("\t\t\t Are you ready to test your skills and luck in a series of challenging and exciting
    rounds?                                    \n ");
00456     Sleep(700);
00457     printf("\t\t\t Play now and see just how far you can go!
    \n ");
00458     Sleep(700);
00459
00460     printf("\n");
00461     printf("\n");
00462
    printf("\t\t\t_____________________________________________________________________________________________
00463 }
00464
00465 void Move()
00466 {
00467     int a, i;
00468
00469     do
00470     {
00471
00472         Food();
00473         fflush(stdin);
00474
00475         len = 0;
00476
00477         for (i = 0; i < 30; i++)
00478
00479         {
00480
00481             body[i].x = 0;
00482
00483             body[i].y = 0;
00484
00485             if (i == length)
00486
00487                 break;
00488         }
00489
00490         Delay(length);
00491
00492         Boarder();
00493
00494         if (head.direction == RIGHT)
00495
00496             Right();
00497
00498         else if (head.direction == LEFT)
00499
00500             Left();
00501
00502         else if (head.direction == DOWN)
00503
00504             Down();
00505
00506         else if (head.direction == UP)
00507
00508             Up();
00509
00510         ExitGame();
00511
00512     } while (!kbhit());
00513
00514     a = getch();
00515
00516     if (a == 27)
00517
00518     {
00519
00520         system("cls");
00521
00522         exit(0);
```

```
00523     }
00524     key = getch();
00525
00526     if ((key == RIGHT && head.direction != LEFT && head.direction != RIGHT) || (key == LEFT &&
      head.direction != RIGHT && head.direction != LEFT) || (key == UP && head.direction != DOWN &&
      head.direction != UP) || (key == DOWN && head.direction != UP && head.direction != DOWN))
00527
00528     {
00529
00530         bend_no++;
00531
00532         bend[bend_no] = head;
00533
00534         head.direction = key;
00535
00536         if (key == UP)
00537
00538             head.y--;
00539
00540         if (key == DOWN)
00541
00542             head.y++;
00543
00544         if (key == RIGHT)
00545
00546             head.x++;
00547
00548         if (key == LEFT)
00549
00550             head.x--;
00551
00552         Move();
00553     }
00554
00555     else if (key == 27)
00556
00557     {
00558
00559         system("cls");
00560
00561         exit(0);
00562     }
00563
00564     else
00565
00566     {
00567
00568         printf("\a");
00569
00570         Move();
00571     }
00572 }
00573
00574 void gotoxy(int x, int y)
00575 {
00576
00577     COORD coord;
00578
00579     coord.X = x;
00580
00581     coord.Y = y;
00582
00583     SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE), coord);
00584 }
00585 void GotoXY(int x, int y)
00586 {
00587     HANDLE a;
00588     COORD b;
00589     fflush(stdout);
00590     b.X = x;
00591     b.Y = y;
00592     a = GetStdHandle(STD_OUTPUT_HANDLE);
00593     SetConsoleCursorPosition(a, b);
00594 }
00595
00596 void Down()
00597 {
00598     int i;
00599     for (i = 0; i <= (head.y - bend[bend_no].y) && len < length; i++)
00600     {
00601         GotoXY(head.x, head.y - i);
00602         {
00603             if (len == 0)
00604                 printf("v");
00605             else
00606                 printf("=");
00607         }
```

```
00608         body[len].x = head.x;
00609         body[len].y = head.y - i;
00610         len++;
00611     }
00612     Bend();
00613     if (!kbhit())
00614         head.y++;
00615 }
00616 void Delay(long double k)
00617 {
00618     Score();
00619     long double i;
00620     for (i = 0; i <= (10000000); i++)
00621         ;
00622 }
00623 void ExitGame()
00624 {
00625     int i, check = 0;
00626     for (i = 4; i < length; i++)
00628     {
00629         if (body[0].x == body[i].x && body[0].y == body[i].y)
00630         {
00631             check++;
00633         }
00634         if (i == length || check != 0)
00635             break;
00636     }
00637     if (head.x <= 10 || head.x >= 70 || head.y <= 10 || head.y >= 30 || check != 0)
00638     {
00639         life--;
00640         if (life > 0)
00641         {
00642             head.x = 25;
00643             head.y = 20;
00644             bend_no = 0;
00645             head.direction = RIGHT;
00646             Move();
00647         }
00648         else
00649         {
00650             printf("\t\t\t\tYou have no more life! ");
00651             system("cls");
00652
00653             if (Scoreonly() > 9)
00654             {
00655                 system("color 2");
00656                 Sleep(500);
00657                 printf("\n");
00658                 printf("\n");
00659
00660                 printf("\t _____(: *|C | O | N | G | R | A | T | U | L | A| T | I | O | N | S|* :)_____\n");
00661                 printf("\n");
00662                 Sleep(700);
00663                 printf("\t\t\tCongratulations on winning the Round of Hunger!\n");
00664                 Sleep(700);
00665                 printf("\t\t\tYou have proven yourself to be a skilled player and \n");
00666                 Sleep(700);
00667                 printf("\t\t\t\thave earned the right to move on to the next round of the game.\n");
00668                 Sleep(700);
00669                 printf("\t\t\tYour strategy and quick move have paid off, and you should be proud of your accomplishment.\n");
00670                 Sleep(700);
00671                 printf("\t\t\tYou have successfully hunted enough food to move on to the next round, and we look forward to seeing you there.\n");
00672                 Sleep(700);
00673                 printf("\t\t\tWe hope you have a great time in the rest of Adventurous World and\n");
00674                 Sleep(700);
00675                 printf("\t\t\tWish you the best of luck as you progress through the game. Well done!\n");
00676                 Sleep(1000);
00677                 printf("\n \n ");
00678
00679                 printf("\t\t\tAre you ready to face the new round ?? \n \n");
00680                 Sleep(500);
00681
00682                 printf("\t\t\t\tpress any key for next round\n");
00683                 getch();
00684
00685                 system("cls");
00686                 system("color 3");
00687                 wordgame();
00688             }
00689
00690             else
00691             {
00692
```

```
00693                 Sleep(700);
00694                 printf("\n");
00695                 printf("\n");
00696
00697
      printf("\t_____________________________________________________________(::::*SAD!!::::)_____________________________
00698                 printf("\t\t\tUnfortunately, you have been eliminated from the Round of Hunger \n");
00699                 printf("\t\t\tbecause you were unable to hunt enough food to move on to the next
      round\n");
00700                 printf("\t\t\tWhile it is unfortunate that you were unable to progress further in the
      game,\n");
00701                 printf("\t\t\twe hope that you have enjoyed your time in Adventurous World and
      appreciate your participation\n");
00702                 printf("\t\t\tThank you for playing, and we hope you will have the opportunity to try
      again in the future.\n");
00703                 printf("\t\t\tBetter luck next time!\n");
00704                 printf("\t\t\t\n");
00705                 Sleep(5000);
00706                 main();
00707             }
00708         }
00709     }
00710 }
00711
00712 void Food()
00713 {
00714     if (head.x == food.x && head.y == food.y)
00715     {
00716         length++;
00717         time_t a;
00718         a = time(0);
00719         srand(a);
00720         food.x = rand() % 70;
00721         if (food.x <= 10)
00722             food.x += 11;
00723         food.y = rand() % 30;
00724         if (food.y <= 10)
00725
00726             food.y += 11;
00727     }
00728     else if (food.x == 0)
00731     {
00732         food.x = rand() % 70;
00733         if (food.x <= 10)
00734             food.x += 11;
00735         food.y = rand() % 30;
00736         if (food.y <= 10)
00737             food.y += 11;
00738     }
00739 }
00740 void Left()
00741 {
00742     int i;
00743     for (i = 0; i <= (bend[bend_no].x - head.x) && len < length; i++)
00744     {
00745         GotoXY((head.x + i), head.y);
00746         {
00747             if (len == 0)
00748                 printf("<");
00749             else
00750                 printf("=");
00751         }
00752         body[len].x = head.x + i;
00753         body[len].y = head.y;
00754         len++;
00755     }
00756     Bend();
00757     if (!kbhit())
00758         head.x--;
00759 }
00760 void Right()
00761 {
00762     int i;
00763     for (i = 0; i <= (head.x - bend[bend_no].x) && len < length; i++)
00764     {
00766         body[len].x = head.x - i;
00767         body[len].y = head.y;
00768         GotoXY(body[len].x, body[len].y);
00769         {
00770             if (len == 0)
00771                 printf(">");
00772             else
00773                 printf("=");
00774         }
00779         len++;
00780     }
00781     Bend();
```

```
00782     if (!kbhit())
00783         head.x++;
00784 }
00785 void Bend()
00786 {
00787     int i, j, diff;
00788     for (i = bend_no; i >= 0 && len < length; i--)
00789     {
00790         if (bend[i].x == bend[i - 1].x)
00791         {
00792             diff = bend[i].y - bend[i - 1].y;
00793             if (diff < 0)
00794                 for (j = 1; j <= (-diff); j++)
00795                 {
00796                     body[len].x = bend[i].x;
00797                     body[len].y = bend[i].y + j;
00798                     GotoXY(body[len].x, body[len].y);
00799                     printf("*");
00800                     len++;
00801                     if (len == length)
00802                         break;
00803                 }
00804             else if (diff > 0)
00805                 for (j = 1; j <= diff; j++)
00806                 {
00810                     body[len].x = bend[i].x;
00811                     body[len].y = bend[i].y - j;
00812                     GotoXY(body[len].x, body[len].y);
00813                     printf("*");
00814                     len++;
00815                     if (len == length)
00816                         break;
00817                 }
00818         }
00819         else if (bend[i].y == bend[i - 1].y)
00820         {
00821             diff = bend[i].x - bend[i - 1].x;
00822             if (diff < 0)
00823                 for (j = 1; j <= (-diff) && len < length; j++)
00824                 {
00828                     body[len].x = bend[i].x + j;
00829                     body[len].y = bend[i].y;
00830                     GotoXY(body[len].x, body[len].y);
00831                     printf("*");
00832                     len++;
00833                     if (len == length)
00834                         break;
00835                 }
00836             else if (diff > 0)
00837                 for (j = 1; j <= diff && len < length; j++)
00838                 {
00842                     body[len].x = bend[i].x - j;
00843                     body[len].y = bend[i].y;
00844                     GotoXY(body[len].x, body[len].y);
00845                     printf("*");
00846                     len++;
00847                     if (len == length)
00848                         break;
00849                 }
00850         }
00851     }
00852 }
00853 void Boarder()
00854 {
00855     system("cls");
00856     int i;
00857     GotoXY(food.x, food.y);
00859     printf("O");
00860     for (i = 10; i < 71; i++)
00861     {
00862         GotoXY(i, 10);
00863         printf("!");
00864         GotoXY(i, 30);
00865         printf("!");
00866     }
00867     for (i = 10; i < 31; i++)
00868     {
00869         GotoXY(10, i);
00870         printf("!");
00871         GotoXY(70, i);
00872         printf("!");
00873     }
00874 }
00875 void r2title()
00876 {
00877     printf("\n");
00878     printf("\n");
```

```
00879     printf("\n");
00880     printf("\n");
00881     Sleep(700);
00882
00883     system("color C");
00884     printf("\t\t\t ::::::    :::::: ::  :: ::     :: ::::::     :::::: ::::::    ::   :: ::  :: ::
      :: ::::::     :::::: ::::::   \n");
00885     printf("\t\t\t ::  ::    ::  :: ::  :: :: ::  :: ::   ::    ::  :: ::        ::   :: ::  :: :: ::
      :: ::         ::     ::  ::     \n");
00886     printf("\t\t\t ::::::    ::  :: ::  :: ::  :: :: ::   :: __ ::  :: :::::: __ ::::::: ::  :: ::  ::
      :: ::  :::::: :::::: ::::::                \n");
00887     printf("\t\t\t ::   ::   ::  :: ::  :: ::   :::: ::   ::    ::  :: ::        ::   :: ::  :: ::
      :::: ::  ::  :: ::     ::   ::     \n");
00888     printf("\t\t\t ::    ::  :::::: :::::: ::     :: ::::::     :::::: ::        ::   :: :::::: ::
      :: ::::::  :: :::::: ::    ::       \n");
00889     printf("\t\t\t
      ____________________________________________________________________________________________________________\n");
00890     printf("\n");
00891     printf("\n");
00892 }
00893
00894 void r2abt()
00895 {
00896     Sleep(800);
00897     r2title();
00898     printf("\t\t\t Welcome %s  to the Round of Hunger! \n  ", p);
00899     Sleep(700);
00900     printf("\t\t\t In this round, you will take control of a snake and guide it through a series of
      obstacles, \n ");
00901     Sleep(700);
00902     printf("\t\t\t collecting food along the way to keep its hunger at bay. As the snake grows longer,
      \n ");
00903     Sleep(700);
00904     printf("\t\t\t it will become more difficult to navigate through the obstacles and avoid running
      into walls or its own body.\n ");
00905     Sleep(700);
00906     printf("\n ");
00907     printf("\n ");
00908     printf("\n ");
00909
00910     Sleep(500);
00911     printf("\t\t\tCONDITION:\n  ");
00912     Sleep(500);
00913     printf("\t\t\tIn this round, you are given three lives and   \n  ");
00914     Sleep(500);
00915     printf("\t\t\tmust score at least 10 points in order to move on to the next round.  \n  ");
00916     Sleep(500);
00917     printf("\t\t\tIf you are unable to score 10 points before losing all three of your lives,  \n ");
00918     Sleep(500);
00919     printf("\t\t\tyou will be eliminated from the game. \n  ");
00920     printf("\n");
00921
00922     printf("\n");
00923     printf("\n");
00924     printf("\n");
00925     printf("\n");
00926     Sleep(500);
00927     printf("\t\t\t Be sure to use your skills and strategy to your advantage and \n ");
00928     Sleep(500);
00929     printf("\t\t\tdo your best to earn a place in the next round of the game.\n ");
00930     Sleep(500);
00931     printf("\t\t\tGood luck, and we hope you have a great time in the Round of Hunger!\n ");
00932
00933     Sleep(500);
00934     printf("\n");
00935     printf("\n");
00936     printf("\t\t\tPress any key to go");
00937     getch();
00938
00939     system("cls");
00940     printf("\n");
00941     printf("\n");
00942     printf("\n");
00943     printf("\n");
00944     printf("\n");
00945     printf("\n");
00946     printf("\n");
00947     Sleep(700);
00948     printf("\t\t\tThe game is starting now!..... \n \n");
00949     Sleep(700);
00950     printf("\t\t\tUse the arrow keys to control the movement of the snake \n \n ");
00951     Sleep(700);
00952     printf("\t\t\tpress any key if you need to hold the snake \n \n ");
00953     Sleep(700);
00954     printf("\t\t\tThe snake will be moving quickly, so be ready to react and make sharp turns as
      needed. \n ");
00955
```

```
00956     Sleep(4000);
00957     system("cls");
00958 }
00959
00960 int Score()
00961 {
00962     int score;
00963     GotoXY(20, 8);
00964     score = length - 5;
00965     printf("SCORE : %d", (length - 5));
00966     score = length - 5;
00967     GotoXY(50, 8);
00968     printf("Life : %d", life);
00969     return score;
00970 }
00971 int Scoreonly()
00972 {
00973     int score = Score();
00974     system("cls");
00975     return score;
00976 }
00977 void Up()
00978 {
00979     int i;
00980     for (i = 0; i <= (bend[bend_no].y - head.y) && len < length; i++)
00981     {
00982         GotoXY(head.x, head.y + i);
00983         {
00984             if (len == 0)
00985                 printf("^");
00986             else
00987                 printf("=");
00988         }
00989         body[len].x = head.x;
00990         body[len].y = head.y + i;
00991         len++;
00992     }
00993     Bend();
00994     if (!kbhit())
00995         head.y--;
00996 }
00998
00999 #define NUM_WORDS 18
01000 #define WORD_LENGTH 20
01001 #define TIME_LIMIT 60
01002
01003 char words[NUM_WORDS][WORD_LENGTH];
01005 bool used[NUM_WORDS];
01007 int i, j, numCorrect = 0;
01009 char guess[WORD_LENGTH];
01011 time_t startTime, endTime;
01013
01014 void wordgame()
01015 {
01016     void Guess();
01017     void r3();
01018     void r3abt();
01019
01021
01023     for (i = 0; i < NUM_WORDS; i++)
01024     {
01025         used[i] = false;
01026     }
01027
01029     strcpy(words[0], "computer");
01030     strcpy(words[1], "banana");
01031     strcpy(words[2], "shoes");
01032     strcpy(words[3], "pencil");
01033     strcpy(words[4], "pen");
01034     strcpy(words[5], "momo");
01035     strcpy(words[6], "hammer");
01036     strcpy(words[7], "book");
01037     strcpy(words[8], "keyboard");
01038     strcpy(words[10], "math");
01039     strcpy(words[11], "mother");
01040     strcpy(words[12], "brush");
01041     strcpy(words[13], "crush");
01042     strcpy(words[14], "marker");
01043     strcpy(words[15], "glass");
01044     strcpy(words[16], "fan");
01045     strcpy(words[17], "corona");
01046     strcpy(words[18], "blanket");
01047
01048     ;
01050     Sleep(300);
01051     r3();
01052     Sleep(500);
```

```
01053     r3abt();
01054
01055     printf("\n");
01056
01057     printf("\n");
01058     printf("\n");
01059     printf("\n");
01060     printf("\n");
01061     printf("\n");
01062     r3();
01063     printf("\n");
01064     printf("\n");
01065     printf("\n");
01066     printf("\n");
01067     printf("\n");
01068     printf("\n");
01069     printf("\n");
01070     Sleep(700);
01071     printf("\t\t\tGet ready! The words you need to remember will now be presented. \n");
01072     Sleep(700);
01073     printf("\t\t\tPay close attention, \n ");
01074     Sleep(700);
01075     printf("\t\t\tAs you only have a few seconds to absorb the information before they disappear. \n
    ");
01076
01077     Sleep(3000);
01078     system("cls");
01079
01081     printf("_____________________________________________________________________________Presenting
    the Words_____________________________________________________________ \n");
01082     Sleep(500);
01083     printf("\n");
01084     for (i = 0; i < NUM_WORDS; i++)
01085     {
01086         Sleep(1000);
01087         printf("%s \n \n ", words[i]);
01088     }
01089     printf(" \n");
01090     sleep(3);
01092     system("cls");
01094     printf("\n");
01095     printf("\n");
01096     printf("\n");
01097     printf("\n");
01098     printf("\n");
01099     printf("\n");
01100     printf("\n");
01101
01102     printf("\n");
01103     printf("\n");
01104     printf("\n");
01105     printf("\n");
01106     printf("\n");
01107     printf("\n");
01108     printf("\n");
01109     printf("\t\t\t your time is being started.....\n \n");
01110     printf("\t\t\t Recall your mind!!\n \n");
01111     printf("\t\t\t Be ready with your hands on keyboard!! \n \n ");
01112     printf("\t\t\t Press enter to Enter next word! \n \n ");
01113     Sleep(4000);
01114     system("cls");
01115     Guess();
01117
01119 }
01120 void Guess()
01121 {
01122     printf("\n");
01123     printf("\n");
01124     printf("\n");
01125     printf("\n");
01126     printf("\n");
01127     printf("\n");
01128     printf("\n");
01129     Sleep(500);
01130     printf("\t \t\t\t\t\t Your time is running out! Quickly enter the words you have retained  \n \n
    \n   ");
01131     Sleep(200);
01132
01133     time(&startTime);
01135     do
01136     {
01137         printf("\t  \t\t\t Your word  :  ");
01138         scanf("%s", guess);
01139         printf("\n");
01140
01142         for (j = 0; j < NUM_WORDS; j++)
01143         {
```

```
01144             if (!used[j] && strcmp(guess, words[j]) == 0)
01145             {
01146                 numCorrect++;
01147                 used[j] = true;
01148                 break;
01149             }
01150         }
01151         time(&endTime);
01153     } while (difftime(endTime, startTime) <= TIME_LIMIT);
01154     printf("\t\t\tYour time is over \n \n  your are succesful to guess   %d Words ", numCorrect);
01155     if (numCorrect > 9)
01156
01157     {
01158         system("cls");
01159         system("color 2");
01160         Sleep(500);
01161         printf("\n");
01162         printf("\n");
01163
01164         printf("\t_____(: *|C | O | N | G | R | A | T | U | L | A|
      T | I | O | N | S|* :)_____\n");
01165         printf("\n");
01166         Sleep(700);
01167         printf("\t\t\t\tCongratulations on winning the Meomory maze!\n");
01168         Sleep(700);
01169         printf("\t\t\t\tYour quick recall and sharp memory have earned you a spot in the next
      challenge. \n");
01170         Sleep(700);
01171         printf("\t\t\t\t\n");
01172         Sleep(700);
01173         printf("\t\t\t\tKeep up the good work and best of luck as you continue on your adventurous
      journey.\n");
01174         Sleep(700);
01175         printf("\n \n ");
01176
01177         printf("\t\t\t\tAre you ready to face the new round ?? \n \n");
01178         Sleep(500);
01179
01180         printf("\t\t\t\tpress any key for next round\n");
01181         getch();
01182         system("cls");
01183         final();
01184     }
01185
01186     else
01187     {
01188         system("cls");
01189         Sleep(700);
01190         printf("\n");
01191         printf("\n");
01192
01193
      printf("\t_____(::::*SAD!!::::::)_____
01194         printf("\n\n");
01195         printf("\t\t\t\tUnfortunately, you were not able to recall enough words in the Memory Maze
      round .\n");
01196         printf("\t\t\t\tBut don't be discouraged, every failure is a stepping stone to success\n");
01197         printf("\t\t\t\tTake this as an opportunity to improve your memory skills and come back
      stronger next time. \n");
01198         printf("\t\t\t\tWe hope you had a great experience and enjoyed the challenge. \n");
01199
01200         printf("\t\t\t\tBetter luck next time!\n");
01201         printf("\t\t\t\t\n");
01202         Sleep(5000);
01203         main();
01204     }
01205     Sleep(6000);
01206     system("cls");
01207     main();
01208 }
01209 void r3()
01210 {
01211     printf("\n");
01212     printf("\n");
01213     printf("\n");
01214     printf("\n");
01215
01216     printf("\t\t\t ##          ##   #####   ##         ##   ######   ## ## ##     ##     ##        ##
      ##   ## ## ##   ## ## ##    ######     \n");
01217     printf("\t\t\t ## ##    ## ##   ##      ## ##   ## ##   ##  ##   ##    ##       ##  ##         ##
      ##   ## ##   ##    ##        ##     ##         \n");
01218     printf("\t\t\t ##    ##    ##   #####   ##   ##    ##   ##  ##   ## ## ##         ##   _____   ##
      ##   ##   ## ## ##       ##      ######     \n");
01219     printf("\t\t\t ##          ##   ##      ##         ##   ##  ##   ##     ##       ##            ##
      ##   ##    ##      ##        ##         \n");
01220     printf("\t\t\t ##          ##   #####   ##         ##   ######   ##       ##    ##            ##
      ##   ##    ##    ## ## ##   ######     \n");
```

```
01221     printf("\t\t\t\t
01222     printf("\n");
01223     printf("\n");
01224 }
01225 void r3abt()
01226 {
01227     Sleep(800);
01228     printf("\t\t\tWelcome  %s to the Round of Memory Maze! In this round, \n", p);
01229     Sleep(800);
01230     printf("\t\t\tyou will be presented with a series of words in sequence.  \n");
01231     Sleep(800);
01232     printf("\t\t\tYour task is to try to remember as many of the words as possible.\n");
01233     Sleep(800);
01234     printf("\n");
01235     printf("\n");
01236     printf("\n");
01237     Sleep(500);
01238     printf("\t\t\t----------------------------------Rules:----------------------------- \n \n");
01239     Sleep(600);
01240     printf("\t\t\t->After all the words have been presented, they will be removed from view and
      \n\n");
01241     Sleep(500);
01242     printf("\t\t\t->You will then have 60 seconds to enter as many of the words as you can recall.\n
      \n");
01243     Sleep(500);
01244     printf("\t\t\t->The more words you remember, the higher your score will be. \n \n");
01245     Sleep(500);
01246     printf("\t\t\t->If you are able to guess at least 10 words correctly,\n \n");
01247     Sleep(500);
01248     printf("\t\t\t you will advance to the next round in your journey through Adventurous \n \n");
01249     Sleep(500);
01250     printf("\n");
01251     printf("\t\t\tGood luck and have fun in the Memory Maze!\n \n");
01252     printf("\t\t\tSimply press any key to start the Meomory maze");
01253
01254     getch();
01255     system("cls");
01256
01257     system("cls");
01258 }
```

5.3 byby.h File Reference

This file has the code that says goodbye to the players.

```
#include <stdio.h>
#include <windows.h>
```

Functions

- int byby ()

5.3.1 Detailed Description

This file has the code that says goodbye to the players.

See also

byby()

5.3.2 Function Documentation

5.3.2.1 byby()

```
int byby ( )
```

5.4 byby.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <windows.h>
00003
00009 int byby()
00010 {
00011     system("color D");
00012     printf("\n\n\n");
00013     printf("\n\n\n");
00014     printf("\n\n\n");
00015     printf("\n\n\n");
00016     printf("\n\n\n");
00017     printf("\t\t\t\t\t\t\t\t****************************************\n");
00018     printf("\t\t\t\t\t\t\t\t*                                      *\n");
00019     printf("\t\t\t\t\t\t\t\t*    Thanks for playing! We hope you    *\n");
00020     printf("\t\t\t\t\t\t\t\t*    had fun and learned something new. *\n");
00021     printf("\t\t\t\t\t\t\t\t*          See you next time!          *\n");
00022     printf("\t\t\t\t\t\t\t\t*                                      *\n");
00023     printf("\t\t\t\t\t\t\t\t*      Keep Learning Keep Exploring !!  *\n");
00024     printf("\t\t\t\t\t\t\t\t*--------------------------------------*\n");
00025     printf("\t\t\t\t\t\t\t\t*               (GAME-HuB)             *\n");
00026     printf("\t\t\t\t\t\t\t\t****************************************\n");
00027     printf("\n\n\n");
00028     printf("\n\n\n");
00029     printf("\n\n\n");
00030     printf("\n\n\n");
00031     printf("\n\n\n");
00032     printf("\n\n\n");
00033     printf("\n\n\n");
00034     printf("\n\n\n");
00035     printf("\n\n\n");
00036     printf("\n\n\n");
00037     printf("\n\n\n");
00038     printf("\n\n\n");
00039
00040     return 0;
00041 }
```

5.5 Congrats.h File Reference

This file congratulates the user. After wining all the round.

```
#include <stdio.h>
#include <windows.h>
#include <conio.h>
```

Functions

- int congrats ()

5.5.1 Detailed Description

This file congratulates the user. After wining all the round.

See also

congrats()

5.5.2 Function Documentation

5.5.2.1 congrats()

```
int congrats ( )
```

change text color to green

change text size to bigger

reset text format

5.6 Congrats.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <windows.h>
00003 #include <conio.h>
00004
00012 int congrats()
00013 {
00014     system("color A");
00015     printf("\n ");
00016     printf("\n ");
00017     printf("\n ");
00018     printf("\n ");
00019     printf("\n ");
00020     printf("\n ");
00021     Sleep(700);
00022     system("color A");
00023     printf("\033[1;32m");
00025     printf("\033[1;37m");
00027     system("color A");
00028     printf("\t\t\t&&&&&&&& &&&&&& &&      && &&&&&&&&   &&&&&&   &&&&&&& &&&&&& &&  && &&      &&&&&&&
      &&&&&& &&&&&& &&&&&& &&&&&& &&       &&    &\n");
00029     printf("\t\t\t&&        &&  && && &   && &&          &&  &&   &&   &&   &&   &&  && &&      &&    &&
      &&   &&  &&   &&   &&  && && &     &&    &  \n");
00030     printf("\t\t\t&&        &&  && &&    & && &&   &&&&& &&&&&&   &&&&&&&   &&   &&  && &&      &&&&&&&
      &&   &&  &&   &&   &&  && &&    &  &&    &      \n");
00031     printf("\t\t\t&&        &&  && &&      && &&   && && &&   &&  &&   &&   &&   &&  && &&      &&    &&
      &&   &&  &&   &&   &&  && &&       &&    &      \n");
00032     printf("\t\t\t&&&&&&&& &&&&&& &&      && &&&&&&& && &&    && &&   &&   &&   &&&&&& &&&&&& &&   &&
      &&   &&&&&& &&&&&& &&&&&& &&       &&   O \n\n");
00033
      printf("\t\t**********************************************************************************************************************
00034     printf("\n");
00035     printf("\n");
00036     printf("\n");
00037     printf("\n");
00038
00039     printf("\n");
00040     printf("\033[0m");
00042     system("color 2");
00043     printf("\t\t\tCongratulations!!, the adventure Hero on completing the journey of Adventurous
      World!\n");
00044     Sleep(700);
00045     printf("\t\t\tyou have faced many challenges and obstacles throughout this journey, but you have
      proven to be a skilled and determined player.\n ");
00046     Sleep(700);
00047     printf("\t\t\tYour success in this game is a reflection of your strength and resilience in the
      face of adversity.\n");
00048     Sleep(700);
00049     printf("\t\t\tRemember that life is full of ups and downs, but with perseverance and
      determination, you can overcome any obstacle and achieve your goals \n");
00050     Sleep(700);
00051     printf("\t\t\tWe hope that this game has inspired you to believe in yourself and to embrace the
      challenges that come your way. \n \n \n");
00052     Sleep(700);
00053     printf("\t\t\tThank you for playing Adventurous World, and we hope you have had a fun and
      rewarding experience.\n\n\n");
00054     Sleep(700);
00055     return 0;
00056 }
```

5.7 finalround.h File Reference

This file has the code of final round of adventrous world.

```
#include <stdio.h>
#include <conio.h>
#include <ctype.h>
#include <windows.h>
#include "Congrats.h"
```

Functions

- void r4abt ()
- void options ()
- int final ()
- void winner ()

Variables

- int score = 0

5.7.1 Detailed Description

This file has the code of final round of adventrous world.

See also

final()

r4abt()

options()

5.7.2 Function Documentation

5.7.2.1 final()

```
int final ( )
```

5.7.2.2 options()

```
void options ( )
```

5.7.2.3 r4abt()

```
void r4abt ( )
```

5.7.2.4 winner()

```
void winner ( )
```

5.7.3 Variable Documentation

5.7.3.1 score

```
int score = 0
```

5.8 finalround.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <conio.h>
00003 #include <ctype.h>
00004 #include <windows.h>
00005 #include "Congrats.h"
00006 void r4abt();
00007 void options();
00008 int score = 0;
00009
00017 int final()
00018 {
00019     void winner();
00020     r4abt();
00021
00022     int running = 1;
00023     char answer;
00024     printf("\n");
00025     printf("\n");
00026     while (running)
00027     {
00028         system("cls");
00029         printf("\n");
00030         printf("\n");
00031         printf("\n");
00032         printf("\n");
00033         printf("\n");
00034         printf("\n");
00035         printf("\n");
00036         printf("\t\t\t\t\t\t\tThe final Riddle Round is about to start. \n \n ");
00037         printf("\t\t\t\t\t\t\tso Be prepared to use your mind to its fullest potential..\n ");
00038         printf("\n");
00039         Sleep(2000);
00040
00041         options();
00042         printf("\t\t\t\t                              Riddle no.1_ \n \n ");
00043
00044         printf("\t\t\t\t No hands, no legs, yet I go everywhere. No mouth to speak yet I tell the
      secrets. Who am I ? ");
00045         scanf(" %c", &answer);
00046         printf("\n");
00047
00048         answer = toupper(answer);
00049         if (answer == 'N')
```

```
00050         {
00051 
00052             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00053 
00054             score++;
00055         }
00056         else
00057         {
00058             printf("\n \t\t\t\t\t\tIncorrect. The correct answer was -N:Letter\n");
00059         }
00060         printf("\n");
00061         Sleep(2000);
00062         options();
00063 
00064         printf("\t\t\t\t                                        Riddle no.2
      \n \n ");
00065 
00066         printf("\t\t\t\t  I dont need clean place, I stay in dirt. I search food for all night while I
      hide all day. Who am i? ? ");
00067         scanf(" %c", &answer);
00068         printf("\n");
00069 
00070         answer = toupper(answer);
00071         if (answer == 'T')
00072         {
00073             printf("\n");
00074 
00075             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00076             score++;
00077         }
00078         else
00079         {
00080             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-T-Mosquito \n");
00081         }
00082 
00083         printf("\n");
00084         Sleep(2000);
00085         options();
00086 
00087         printf("\t\t\t\t                                        Riddle no.3
      \n \n ");
00088 
00089         printf("\t\t\t\t I can fly, I can flow. When flowing I can also freeze. Who am I ?   ");
00090         scanf(" %c", &answer);
00091         printf("\n");
00092 
00093         answer = toupper(answer);
00094         if (answer == 'P')
00095         {
00096             printf("\n");
00097 
00098             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00099             score++;
00100         }
00101         else
00102         {
00103             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-P:Water \n");
00104         }
00105 
00106         printf("\n");
00107         Sleep(2000);
00108         options();
00109 
00110         printf("\t\t\t\t                                       Riddle no.4
      \n \n ");
00111 
00112         printf("\t\t\t\t It only does one job but has different names, its job is to dance in a world
      full of dirt  ");
00113         scanf(" %c", &answer);
00114         printf("\n");
00115 
00116         answer = toupper(answer);
00117         if (answer == 'I')
00118         {
00119             printf("\n");
00120 
00121             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00122             score++;
00123         }
00124         else
00125         {
00126             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-I-Soap \n");
00127         }
00128         printf("\n");
00129         Sleep(2000);
00130         options();
00131 
```

```
00132         printf("\t\t\t\t                                        Riddle no.5
      \n \n ");
00133
00134         printf("\t\t\t\t Wether you go inside or come out, I will just stay here  ");
00135         scanf(" %c", &answer);
00136         printf("\n");
00137
00138         answer = toupper(answer);
00139         if (answer == 'O')
00140         {
00141             printf("\n");
00142
00143             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00144             score++;
00145         }
00146         else
00147         {
00148             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-P:Door \n");
00149         }
00150         printf("\n");
00151         Sleep(2000);
00152         options();
00153
00154         printf("\t\t\t\t\t                                        Riddle no.6
      \n \n ");
00155
00156         printf("\t\t\t\t am walking and my steps are rubbed away. Who am I?   ");
00157         scanf(" %c", &answer);
00158         printf("\n");
00159
00160         answer = toupper(answer);
00161         if (answer == 'M')
00162         {
00163             printf("\n");
00164
00165             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00166             score++;
00167         }
00168         else
00169         {
00170             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-M:Rowing_boat \n");
00171         }
00172         printf("\n");
00173         Sleep(2000);
00174         options();
00175
00176         printf("\t\t\t\t\t                                        Riddle no.7
      \n \n ");
00177
00178         printf("\t\t\t\t one brother dances, 5 brothers watch, 4 brothers, hide. What is it?  ");
00179         scanf(" %c", &answer);
00180         printf("\n");
00181
00182         answer = toupper(answer);
00183         if (answer == 'Z')
00184         {
00185             printf("\n");
00186
00187             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00188             score++;
00189         }
00190         else
00191         {
00192             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-Z:Prepearing_Tobaco \n");
00193         }
00194         printf("\n");
00195         Sleep(2000);
00196         options();
00197
00198         printf("\t\t\t\t                                        Riddle no.8
      \n \n ");
00199
00200         printf("\t\t\t\t Water or land it can stay anywhere. If it needs to go some place. It goes by
      hoping. What is it ?  ");
00201         scanf(" %c", &answer);
00202         printf("\n");
00203
00204         answer = toupper(answer);
00205         if (answer == 'F')
00206         {
00207             printf("\n");
00208
00209             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00210             score++;
00211         }
00212         else
00213         {
```

```
00214             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-F:frog \n");
00215         }
00216         printf("\n");
00217         Sleep(2000);
00218         options();
00219         printf("\t\t\t\t                                        Riddle no.9
      \n \n ");
00220
00221         printf("\t\t\t\t  Fits inside a plastic but doesn't fit at the door. What is it?  ");
00222         scanf(" %c", &answer);
00223         printf("\n");
00224
00225         answer = toupper(answer);
00226         if (answer == 'U')
00227         {
00228             printf("\n");
00229
00230             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00231             score++;
00232         }
00233         else
00234         {
00235             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-U:Umbrella \n");
00236         }
00237         printf("\n");
00238         Sleep(2000);
00239         options();
00240         printf("\t\t\t\t                                        Riddle no.10
      \n \n ");
00241
00242         printf("\t\t\t\t Elephant, horses play there but there is no any country. There is a race of
      king, minister, and police ");
00243         scanf(" %c", &answer);
00244         printf("\n");
00245
00246         answer = toupper(answer);
00247         if (answer == 'W')
00248         {
00249             printf("\n");
00250
00251             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00252             score++;
00253         }
00254         else
00255         {
00256             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-W:chess \n");
00257         }
00258         printf("\n");
00259         Sleep(2000);
00260         options();
00261
00262         printf("\t\t\t\t\t                                          Riddle no.11
      \n \n ");
00263
00264         printf("\t\t\t\t it flies high up in the sky but it's not a bird. Has a long tail but it's not
      a snake. What is it ?  ");
00265         scanf(" %c", &answer);
00266         printf("\n");
00267
00268         answer = toupper(answer);
00269         if (answer == 'Q')
00270         {
00271             printf("\n");
00272
00273             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00274             score++;
00275         }
00276         else
00277         {
00278             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-Q:Kite \n");
00279         }
00280
00281         printf("\n");
00282         Sleep(2000);
00283         options();
00284
00285         printf("\t\t\t\t\t                                          Riddle no.12
      \n \n ");
00286
00287         printf("\t\t\t\t It comes and goes but cannot be seen, couldn't be caught even if I run after
      it.  ");
00288         scanf(" %c", &answer);
00289         printf("\n");
00290
00291         answer = toupper(answer);
00292         if (answer == 'L')
00293         {
```

```
00294             printf("\n");
00295
00296             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00297             score++;
00298         }
00299         else
00300         {
00301             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-L:Wind \n");
00302         }
00303
00304         printf("\n");
00305         Sleep(2000);
00306         options();
00307         printf("\t\t\t\t\t                                        Riddle no.13
      \n \n ");
00308
00309         printf("\t\t\t\t  my job is to read, write and see. Not a paper, pen or paper,Who I am?  ");
00310         scanf(" %c", &answer);
00311         printf("\n");
00312
00313         answer = toupper(answer);
00314         if (answer == 'V')
00315         {
00316             printf("\n");
00317
00318             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00319             score++;
00320         }
00321         else
00322         {
00323             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-V-Eyeglass \n");
00324         }
00325
00326         printf("\n");
00327         Sleep(2000);
00328         options();
00329         printf("\t\t\t\t\t                                        Riddle no.14
      \n \n ");
00330
00331         printf("\t\t\t\t small in size but very powerful. Wise men say its just a dirt below the foot.
      What is it ?   ");
00332         scanf(" %c", &answer);
00333         printf("\n");
00334
00335         answer = toupper(answer);
00336         if (answer == 'A')
00337         {
00338             printf("\n");
00339
00340             printf("\n \t\t\t\t\t\tCongratulation! correct answer\n");
00341             score++;
00342         }
00343         else
00344         {
00345             printf("\n \t\t\t\t\t\tIncorrect Answer!. The correct answer was-A:Money \n");
00346         }
00347
00348         winner();
00349         return 0;
00350     }
00351 }
00352 void r4abt()
00353 {
00354     system("color B");
00355
00356     printf("\n");
00357     printf("\n");
00358     Sleep(800);
00359     printf("\t\t\t$$        $$     $$    $$  $$$$$$$  $$$$$$$$ $$$$$$  $$$$$$$   $$$$$$  $$$$$$$$ $$
      $$  $$$$$$     $$$$$$$$ $$$$$$  $$$$$$$  $$$$$$$$ \n");
00360     printf("\t\t\t$$ $$  $$ $$      $$ $$    $$          $$    $$      $$   $$     $$    $$    $$ $$
      $$  $$              $$    $$      $$         $$   \n");
00361     printf("\t\t\t$$   $$   $$       $$      $$$$$$$     $$    $$$$$$  $$$$$$      $$    $$    $$ $$
      $$  $$$$$$ ____   $$    $$$$$$  $$$$$$$$    $$    \n");
00362     printf("\t\t\t$$        $$       $$           $$     $$    $$      $$   $$     $$    $$    $$ $$
      $$      $$        $$    $$            $$    $$   \n");
00363     printf("\t\t\t$$        $$       $$     $$$$$$$$     $$    $$$$$$  $$    $$  $$$$$$  $$$$$$$$
      $$$$$$$$  $$$$$$        $$    $$$$$$  $$$$$$$$    $$                            $$\n");
00364
      printf("\t\t\t_____________________________________________________________________________________________________________
00365     printf("\t\t\t ____________________________________________________(The Riddle Grand
      Finale)____________________________________________\n");
00366     printf("\n");
00367     printf("\n");
00368     Sleep(1000);
00369     printf("\t\t\t Welcome, dear   to Mysterious Test , The Final Riddle Round !! \n  ");
00370     Sleep(700);
```

```
00371     printf("\t\t\t You have battled your way through various rounds and obstacles, proving your skills
      and determination. \n ");
00372     Sleep(700);
00373     printf("\t\t\t The final test is here.  \n .");
00374     Sleep(1000);
00375     printf("\n");
00376     printf("\n");
00377     printf("\n");
00378     printf("\t\t\tThe Mysterious, The Final Riddle Round is the ultimate test of your riddle solving
      skills.   \n ");
00379     Sleep(700);
00380     printf("\t\t\tThis round is not just about problem solving, it's also about finding and thinking
      of answers,\n\n");
00381     Sleep(700);
00382     printf("\t\t\tYou will be presented with 14 challenging riddles, each one designed to test your
      intelligence, wit, and imagination. \n\n ");
00383     Sleep(700);
00384     printf("\t\t\tYou will have 26 options to choose from, each one hiding the answer to the riddle\n
      \n ");
00385     Sleep(700);
00386     printf("\t\t\tYour task is to find the correct answer and earn points\n  \n ");
00387     Sleep(500);
00388
00389     printf("\n");
00390     printf("\n");
00391     Sleep(700);
00392     printf("\t\t\tThe point ranges for different levels of success will be kept secret, \n ");
00393     Sleep(700);
00394     printf("\t\t\tHowever, your performance will be measured by the number of points you earn and  \n
      ");
00395     Sleep(700);
00396     printf("\t\t\tsuccess will be awarded in three tiers: Bronze, Silver, and Gold!\n \n ");
00397
00398     Sleep(700);
00399
00400     printf("\n");
00401     printf("\n");
00402     printf("\n");
00403     printf("Press any key to begin the final Riddle round of mysterous test\n");
00404     getch();
00405     Sleep(500);
00406 }
00407
00408 void options()
00409 {
00410     system("cls");
00411     printf("\n ");
00412     printf("\n ");
00413     printf("\n ");
00414     printf("\n ");
00415
      printf("\t\t\t_____OPTIONS_____\n"
00416     printf("\t\t\t A:money \tB:Snake \tC:Umbrella \tD:Computer \tE:Radio \tF:Frog \tG:Snow        \n
      \n");
00417     printf("\t\t\t H:Time  \tI:SOAP  \tJ:Camera \tK:Airplane \tL:Wind \tM:Rowing_boat \tN:Letter  \n
      \n ");
00418     printf("\t\t\t O:Door  \tP:Water \tQ:Kite \tR:Hide&seek \tS:walking_man \tT:Mosquito     \n \n");
00419     printf("\t\t\t U:Umbrella \tV:Eyeglass \tW:Chess \tX:Bats \tY:Dustbin \tZ:Preparing_tobaco \n");
00420
      printf("\t\t\t_____");
00421     printf("\n");
00422     printf("\n");
00423     printf("\t\t\tEnter the Alphabet(a-z or A-Z on the bais of above options to enter your answer)\n
      \n");
00424     printf("\n");
00425     printf("\n");
00426     printf("\n");
00427     printf("\n");
00428     printf("\n");
00429     Sleep(700);
00430 }
00431 void winner()
00432 {
00433     system("color A");
00434     system("cls");
00435     printf("\n");
00436     Sleep(700);
00437     printf("\t\t\t\t\t\t\t\t\t  |Your total points is %d|\n  \n", score);
00438     printf("\n");
00439     printf("\n");
00440     if (score >= 12)
00441     {
00442         printf("\t\t\tWow, what an incredible achievement!\n");
00443         printf("\t\t\tYou have earned a Gold victory in the Mysterious The Final Riddle Round, the
      highest level of success.\n");
00444         printf("\t\t\tYour brilliance and perseverance have truly paid off.\n");
00445         printf("\t\t\tYou are a true champion and an inspiration to us all.\n ");
```

```
00446     }
00447     else if (score >= 8)
00448     {
00449         printf("\t\t\tFantastic job!\n");
00450         printf("\t\t\tYou have proven yourself to be a true riddle-solving master by earning a Silver
      victory in the Mysterious The Final Riddle Round.\n");
00451         printf("\t\t\tYou have shown remarkable skill and intelligence.\n");
00452         printf("\t\t\tKeep pushing yourself to reach new heights.\n ");
00453     }
00454     else if (score < 8)
00455     {
00456         printf("\t\t\tCongratulations!\n");
00457         printf("\t\t\tyou have successfully completed the Mysterious The Final Riddle Round and earned
      a Bronze victory.\n");
00458         printf("\t\t\tYour hard work and determination have paid off.\n");
00459         printf("\t\t\tKeep up the good work and strive for even greater achievements in the future\n
      ");
00460     }
00461     printf("\n ");
00462     printf("\n ");
00463     printf("\n ");
00464     printf("\n ");
00465     printf("\n ");
00466     Sleep(1000);
00467     congrats();
00468     printf("\t\t\tpress any key to return on the menu.");
00469     getch();
00470     menu();
00471     getch();
00472 }
```

5.9 Hangman.h File Reference

This file has the code and functions for hangman game.

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>
#include <windows.h>
#include "Singleplayer.h"
#include "Multiplayer.h"
```

Functions

- void title ()

  title of the game
- void about ()

  About the game Detail about the hangman game.
- int Hangman ()

  body

5.9.1 Detailed Description

This file has the code and functions for hangman game.

5.9.2 Function Documentation

5.9.2.1 about()

```
void about ( )
```

About the game Detail about the hangman game.

See also

about()

5.9.2.2 Hangman()

```
int Hangman ( )
```

body

Returns

returns the character that is read as an integer.

returns the character that is read as an integer.

calling single finction from Singleplayer.h. calling single function

calling single finction from Multiplayer.h

5.9.2.3 title()

```
void title ( )
```

title of the game

5.10 Hangman.h

Go to the documentation of this file.

```
00001
00006 #include <stdio.h>
00007 #include <conio.h>
00008 #include <stdlib.h>
00009 #include <windows.h>
00010 #include "Singleplayer.h"
00011 #include "Multiplayer.h"
00012
00014 void title()
00015 {
00016     printf("\t\t\t  &&       &&        &&&&&         &&&&        &&     &&&&&&&&&&&&&   &&&&        &&&&
      &&&&&         &&&&&        &&\n");
00017     printf("\t\t\t  &&       &&       &&    &&        && &&       &&     &&               &&  &      &  &&
      &&   &&        &&  &&       &&\n");
00018     printf("\t\t\t  &&       &&      &&      &&       &&  &&      &&     &&    &&&&&&&&   &&   &&  &&  &&
      &&     &&       &&    &&      &&\n");
00019     printf("\t\t\t  &&&&&&&&&&     &&&&&&&&&&      &&    &&     &&     &&&&&  &   &&    &&&&   &&
      &&&&&&&&&&      &&    &&     &&\n");
00020     printf("\t\t\t  &&       &&   &&          &&     &&    &&    &&     &&       &&  &   &&           &&
      &&         &&    &&     &&   &&\n");
```

```
00021     printf("\t\t\t  &&       &&  &&           &&   &&       && &&    &&       &&  &   &&           &&
      &&           &&   &&       &&  &&\n");
00022     printf("\t\t\t  &&       && &&             &&  &&        &&&&    &&&&&&&&&&  &   &&           &&  &&
      &&  &&       &&&&&\n");
00023 }
00024
00028 void about()
00029 {
00030     system("cls");
00031     printf("\n\n");
00032     printf("\n\n");
00033     printf("\n\n");
00034
00035     title();
00036
00037     printf("\n\n");
00038     printf("\n\t\t\t---------------------------------------- ABOUT SECTION
      ----------------------------------------------");
00039     printf("\n\n");
00040     Sleep(1000);
00041     printf("\n\n");
00042     printf(" \t\t     About the game:::                              \n");
00043     printf("
      \t\t=============================================================================================================================
00044     printf(" \t\t|   Hangman can be played between two or more users,where one gives the word and
      other guesses the alphabets                          |\n");
00045     printf(" \t\t|   Here, the first user enters a word and after the enter key is pressed, the screen
      is cleared and second user starts guessing.    |\n");
00046     printf(" \t\t|   For every wrong guess, the number of mistakes is counted and the game is over if
      the second user does more than 5 mistakes       |\n");
00047     printf("
      \t\t=============================================================================================================================
00048     printf("\n");
00049     printf("\n");
00050     Sleep(500);
00051     printf(" \t\t How to play:::\n");
00052     printf("
      \t\t=============================================================================================================================
00053     printf(" \t\t|Use your keyboard and guess the word . if you press any letter and the letter is in
      the word the game will tell you the position of the letter. |\n\n \t\t\t BEST OF LUCK !\n");
00054     printf("
      \t\t=============================================================================================================================
00055     Sleep(500);
00056     printf("\n");
00057     printf("\n");
00058     printf(" \t\t     Rules for the game:::                                \n");
00059     printf(" \t\t=============================================================\n");
00060     printf(" \t\t|  <1> While guessing lowercase alphabet must be used.     |\n");
00061     printf(" \t\t|  <2> Maximum 5 mistakes are allowed.                     |\n");
00062     printf(" \t\t=============================================================\n");
00063     printf("\n\n\n\t\t\t\t\t\t\t\t\tPress any key to continue......");
00064     getch();
00065 }
00066
00068 int Hangman()
00069 {
00070     system("cls");
00071     int ch;
00072     printf("\n\n");
00073     printf("\tHangman The Vocabulary Test...");
00074
00075     printf("\n\n");
00076     printf("\n\n");
00077
00078     title();
00079     printf("\n\n");
00080     printf("\n\t\t\t ------------------------------------------------- MENU
      ------------------------------------------------- ");
00081     printf("\n\n");
00082     printf("\n\n");
00083     printf("\n\t\t\t\t1:PLAY \n\t\t\t\t2:ABOUT \n\t\t\t\t3:QUIT ");
00084     printf("\n\n");
00085     printf("\n\n");
00086     printf("\n\n");
00087     printf("\n\n\n\t\t\t\t\t\t\t\tEnter your choice,Mr player... : ");
00088     scanf("%d", &ch);
00089     fgetc(stdin);
00091     switch (ch)
00092     {
00093     case 1:;
00094         system("cls");
00095         int op;
00096     inputagain:
00097         printf("\n\n");
00098         printf("\n\n");
00099         printf("\n\n");
00100
```

```
00101         title();
00102         printf("\n\n");
00103         printf("\n\t\t\t ------------------------------------------------- MODE
      ---------------------------------------------------- ");
00104 
00105         printf("\n\n");
00106         printf("\n\n");
00107         printf("\n\t\t\t\t1:SINGLE PLAYER\n\t\t\t\t2:MULTI PLAYER \n\t\t\t\t3:BACK ");
00108         printf("\n\n");
00109         printf("\n\n");
00110         printf("\n\n");
00111         printf("\n\n\n\t\t\t\t\t\t\t\t\tEnter your choice : ");
00112         scanf("%d", &op);
00113         fgetc(stdin);
00115         switch (op)
00116         {
00117         case 1:
00118             single();
00119 
00125             break;
00126 
00127         case 2:
00128             multi();
00130 
00131             break;
00132 
00133         case 3:
00134             Hangman();
00135             break;
00136 
00137         default:
00138             printf("\n\n\t\t\t\t\t     Invalid Input\t");
00139             Sleep(1000);
00140             system("cls");
00141             goto inputagain;
00142         }
00143         break;
00144     case 2:
00145         about();
00146         Hangman();
00147         break;
00148 
00149     case 3:
00150         system("cls");
00151         menu();
00152         break;
00153     default:
00154         printf("\n\n\t\t\t\t\t     Invalid Input\t");
00155         Sleep(1000);
00156         system("cls");
00157         Hangman();
00158     }
00159 
00160     return 0;
00161 }
```

5.11 main.c File Reference

This function print the Name of the project.

```
#include <stdio.h>
#include "menu.h"
#include <windows.h>
#include "AdvWorld.h"
```

Functions

- void topspace ()

  top margin...

5.11.1 Detailed Description

This function print the Name of the project.

Author

Sujan Tamang, Binaya Karki, Bishal Karki, Devendra Khatri .

And calls menu function

5.11.2 Function Documentation

5.11.2.1 topspace()

```
void topspace ( )
```

top margin...

5.12 menu.h File Reference

This file has the menu for hangman game.

```
#include "Hangman.h"
#include "tictactoe.h"
#include "AdvWorld.h"
#include "byby.h"
#include "quiz.h"
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#include <conio.h>
#include <process.h>
#include <windows.h>
```

Functions

- void f_header ()
  prints Welcome
- int menu ()

5.12.1 Detailed Description

This file has the menu for hangman game.

See also

menu()

5.12.2 Function Documentation

5.12.2.1 f_header()

```
void f_header ( )
```

prints Welcome

5.12.2.2 menu()

```
int menu ( )
```

taking the user input.....

returns the character that is read as an integer.

5.13 menu.h

Go to the documentation of this file.

```
00001 #include "Hangman.h"
00002 #include "tictactoe.h"
00003 #include "AdvWorld.h"
00004 #include "byby.h"
00005 #include "quiz.h"
00006 #include <stdio.h>
00007 #include <ctype.h>
00008 #include <stdlib.h>
00009 #include <conio.h>
00010 #include <process.h>
00011 #include <windows.h>
00012
00016 void f_header()
00017 {
00018     printf("\t\t\t\t\t\t  &&       &&  &&&&&&&  &&      &&&&&&& &&&&&&&&  &&&       &&& &&&&&&&\n");
00019     printf("\t\t\t\t\t\t  &&       &&  &&       &&      &&       &&     &&  &&  &&  &&  &&       \n");
00020     printf("\t\t\t\t\t\t  &&       &&  &&&&&&   &&      &&       &&     &&  &&    &&    &&  &&&&&& \n");
00021     printf("\t\t\t\t\t\t  &&  &&   &&  &&       &&      &&       &&     &&  &&          &&  &&       \n");
00022     printf("\t\t\t\t\t\t  &&&    &&&  &&&&&&&  &&&&&& &&&&&&& &&&&&&&&  &&          &&  &&&&&&&\n");
00023     printf("\n");
00024     printf("\t\t\t\t\t\t                                GAMERS");
00025 }
00026
00032 int menu()
00033 {
00034     int choice;
00035     printf("\n\t2B-SDs\n\n");
00036     printf("\n\n");
00037     f_header();
00038     printf("\n\n");
00039     printf("\n\t\t\t ------------------------------------------------------ MAIN MENU
    ------------------------------------------------------ ");
00040     printf("\n\n");
00041     printf("\n\n");
00042     printf("\n\t\t\t\t1.Hangman");
00043     printf("\n\t\t\t\t2.Tic Tac Toe");
00044     printf("\n\t\t\t\t3.QUiz");
00045     printf("\n\t\t\t\t4.Adventurous World");
00046     printf("\n\t\t\t\t5.Exit");
00048     printf("\n\n\t\t\t\t\tEnter your choice : ");
00049     scanf("%d", &choice);
00050     fgetc(stdin);
00052
```

```
00053     switch (choice)
00054     {
00055     case 1:
00056         Hangman();
00057         break;
00058
00059     case 2:
00060         Tictactoe();
00061         break;
00062
00063     case 3:
00064         quiz();
00065         break;
00066     case 4:
00067         aworld();
00068         break;
00069
00070     case 5:
00071         system("cls");
00072         byby();
00073         exit(0);
00074         break;
00075
00076     default:
00077         system("color 04");
00078         printf("\n\n\t\t\t\t\t     Invalid Input\t");
00079         Sleep(2000);
00080         system("cls");
00081         menu();
00082     }
00083
00084     return 0;
00085 }
```

5.14 Multiplayer.h File Reference

This file has the code for multipalyer of hangman game.

```
#include <stdio.h>
#include <windows.h>
```

Functions

- void load ()

  loading animation
- void takeword (char wd[50])

  hide the characters while giving input
- int multi ()

5.14.1 Detailed Description

This file has the code for multipalyer of hangman game.

See also

multi()

5.14.2 Function Documentation

5.14.2.1 load()

```
void load ( )
```

loading animation

5.14.2.2 multi()

```
int multi ( )
```

VARIABLE DECLERATION.....

Word to be guessed

contains - pattern

clears the output buffer

replacting characters with '-'

checking if user guessed is correct or not

replace the correct alphabet

player successfully guessed

player failed to guess

calling Hangman from hangman.h

See also

Hangman()

5.14.2.3 takeword()

```
void takeword (
            char wd[50] )
```

hide the characters while giving input

5.15 Multiplayer.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <windows.h>
00004 void load()
00005 {
00006     printf("\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t LOADING ");
00007     Sleep(1000);
00008     printf("..");
00009
00010     Sleep(500);
00011     printf("..");
00012
00013     Sleep(500);
00014     printf("..");
00015
00016     Sleep(500);
00017     printf("...");
00018
00019     system("cls");
00020 }
00021
00023 void takeword(char wd[50])
00024 {
00025     int i;
00026     char ch;
00027     while (1)
00028     {
00029         ch = getch();
00030         if (ch == 13 || ch == 9)
00031         {
00032             wd[i] = '\0';
00033             break;
00034         }
00035         else if (ch == 8)
00036         {
00037             if (i > 0)
00038             {
00039                 i--;
00040                 printf("\b \b");
00041             }
00042         }
00043         else
00044         {
00045             wd[i++] = ch;
00046             printf("* \b");
00047         }
00048     }
00049 }
00050
00056 int multi()
00057 {
00058     system("cls");
00060     char word[20];
00062     char temp[20];
00064     char player_guessed;
00065     int len, n;
00066     int i, j;
00067     int lives, correct;
00068     int guess = 0;
00069     char hint[25];
00070     system("cls");
00071     load();
00072     printf("Hangman The Game...");
00073     printf("\n");
00074     printf("\n");
00075     printf("\n");
00076     printf("
      \t=============================================================================================================================
00077     printf(" \t|   WORD GIVING TIME!!!!!!! \n");
00078     printf(" \t|\n");
00079     printf(" \t|      Enter any word you want your friend to guess :");
00080     fflush(stdout);
00082     takeword(word);
00083     len = strlen(word);
00084     strlwr(word);
00085     printf(" \t|\n");
00086     printf(" \n\t|      Hint :");
00087     gets(hint);
00088
00089     system("cls");
00090     load();
00091     printf("Hangman The Game...");
00092     printf("\n");
```

```
00093     printf("\n");
00094     printf("\n");
00095     n = len;
00096     printf("
    ==========================================================================================================================
00097     printf(" |\n");
00098     printf(" |    AND HERE WE GO......!!!\n");
00099     printf(" |\n");
00100     printf(" |    CAN YOU SAVE ME PLESASE?:( \n");
00101     printf(" |\n");
00102     printf(" |       The number of alphabets in the word : %d\n", n);
00103     printf("\n");
00105     for (i = 0; i < n; ++i)
00106     {
00107         temp[i] = '-';
00108         printf("\t%c", temp[i]);
00109     }
00110
00111     printf(" |\n");
00112     printf(" |\t   _____________________\n"
00113            " |\t   |                    |\n"
00114            " |\t   |\n"
00115            " |\t   |\n"
00116            " |\t   |\n"
00117            " |\t   |\n"
00118            " |\t   |\n"
00119            " |\t   |\n"
00120            " |\t ----\n");
00121     printf(" |\n");
00122     lives = 5;
00123
00124     while (lives <= 5)
00125     {
00126         correct = 0;
00127         printf(" | HINT : %s\n", hint);
00128         printf(" | Please enter your guess :  ");
00129         player_guessed = getche();
00130         for (j = 0; j < n; j++)
00131         {
00132
00133             if (player_guessed == word[j])
00135             {
00136                 temp[j] = word[j];
00137                 correct = 1;
00138                 guess++;
00139             }
00140         }
00141
00142         if (correct != 1)
00143         {
00144             printf(" |\n\tYour letter %c is not in the world, Guess another letter.\n",
    player_guessed);
00145             lives--;
00146             printBody(lives);
00147         }
00148
00149         printf("\n");
00150         printf("\n");
00152         for (i = 0; i < n; i++)
00153         {
00154             printf("\t%c", temp[i]);
00155         }
00156         printf("\n");
00157         printf("\n");
00159         if (guess == n)
00160         {
00161             printf(" |\n");
00162             printf(" |  CONGRATULATIONS!!!!!!,You Have Guessed The Word Correctly\n");
00163             break;
00164         }
00166         if (lives == 0)
00167         {
00168             printf(" |\n\n");
00169             printf(" |  SORRY, YOU ARE HANGED:((\n");
00170             printf(" |  BETTER LUCK NEXT TIME!\n");
00171             printf(" |  The word you had to guess was :   %s", word);
00172             break;
00173         }
00174     }
00175     printf("\n\n\n\t\t\t\t\t\t\t\tPress any key to continue......");
00176     getch();
00177     Hangman();
00180     return 0;
00181 }
```

5.16 quiz.h File Reference

This file has the code for quiz game.

```
#include <stdio.h>
#include <windows.h>
#include <conio.h>
```

Functions

- void quiztitle ()
- int quiz ()

5.16.1 Detailed Description

This file has the code for quiz game.

See also

quiz

5.16.2 Function Documentation

5.16.2.1 quiz()

```
int quiz ( )
```

heading

information and conditions about the game

topics selection

Basic computer quiz starts here

5.16.2.2 quiztitle()

```
void quiztitle ( )
```

5.17 quiz.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <windows.h>
00003 #include <conio.h>
00004
00005 void quiztitle()
00006 {
00007     printf("\t\t\t\t\t\t  QQQQQQQQQQ        UU    UU    IIIIIIII     ZZZZZZZZZZZZZ\n");
00008     printf("\t\t\t\t\t\t  Q        Q        UU    UU       II                ZZ\n");
00009     printf("\t\t\t\t\t\t  Q        Q        UU    UU       II              ZZ  \n");
00010     printf("\t\t\t\t\t\t  Q        Q        UU    UU       II            ZZ    \n");
00011     printf("\t\t\t\t\t\t  Q     QQQQQQQ     UU    UU       II          ZZ      \n");
00012     printf("\t\t\t\t\t\t  Q     QQ Q QQ     UU    UU       II        ZZ        \n");
00013     printf("\t\t\t\t\t\t  Q     QQ Q QQQQ   UU    UU       II      ZZ          \n");
00014     printf("\t\t\t\t\t\t  QQQQQQQ           UUUUUUUU    IIIIIIII     ZZZZZZZZZZZZZ\n");
00015 }
00016
00022 int quiz()
00023 {
00024     int i;
00025     int ans;
00026     int choice;
00027     int count = 0;
00029 alpha:
00030     system("cls");
00031     printf("\n\n");
00032     printf("\tThe Quiz Game...");
00033     printf("\n\n");
00034     printf("\n\n");
00035     quiztitle();
00036     printf("\n\t\t\t---------------------------------------------- QUIZ MENU
    ------------------------------------------------");
00037     Sleep(500);
00038     printf("\n\n");
00039     printf("\n\n");
00040     printf("\n\t\t\t  1.PLAY\n\t\t\t  2.QUIT\n");
00041     printf("\n\n\n\n\n\t\t\t\t\t\t\tEnter your choice, Mr.player: ");
00042     scanf("%d", &choice);
00043     fgetc(stdin);
00044
00045     switch (choice)
00046     {
00048     case 1:
00049         system("cls");
00050         printf("\n\n");
00051         printf("\tThe Quiz Game...");
00052         printf("\n\n");
00053         printf("\n\n");
00054         quiztitle();
00055         printf("\n\t\t\t---------------------------------------------- ABOUT
    ------------------------------------------------");
00056         printf("\n");
00057         printf("\n\n");
00058         printf(" \t\t\t\t\t  ================================================================\n");
00059         printf(" \t\t\t\t\t  |  <1> There are 5 topics in this quiz ,                       |\n");
00060         printf(" \t\t\t\t\t  |  <2> Each topic contains 10 questions ,                      |\n");
00061         printf(" \t\t\t\t\t  |  <3> Each question contains 10 points,                       |\n");
00062         printf(" \t\t\t\t\t  |  <4> Alphabet input are consider as wrong answer              |\n");
00063         printf(" \t\t\t\t\t  ================================================================");
00064         printf("\n\n");
00065         printf("\n\n");
00066         printf("\n\n\n\t\t\t\t\t\t\tPress any key to continue......");
00067         getch();
00068         goto start;
00069         break;
00070
00071     case 2:
00072         system("cls");
00073         menu();
00074         break;
00075
00076     default:
00077         printf("\n\n");
00078         printf("\n\n");
00079         printf("\n\n\t\t\t\t\t\t\t     Invalid Input\t");
00080         Sleep(1000);
00081         goto alpha;
00082     }
00083
00085 start:
00086     system("cls");
00087     printf("\n\n");
00088     printf("\tThe Quiz Game...");
```

```
00089     printf("\n\n");
00090     printf("\n\n");
00091     quiztitle();
00092     printf("\n\t\t\t---------------------------------------------- TOPIC SECTION
 ------------------------------------------------");
00093     printf("\n\n");
00094     printf("\t\t\t\t1) Basic computer \n\t\t\t\t2) Computer system \n\t\t\t\t3) Networking
 \n\t\t\t\t4) C-programming \n\t\t\t\t5) JavaScript \n\t\t\t\t6)Back");
00095     printf("\n\n\n\t\t\t\t\t\t\t\t\t\tEnter your choice : ");
00096     scanf("%d", &choice);
00097
00098     switch (choice)
00099     {
00100     case 1:
00102         system("cls");
00103         printf("\n\n");
00104         printf("\tAnd Here We go...");
00105         printf("\n\n");
00106         printf("\n\n");
00107         printf("\n\t\t\t\t---------------------------------------------- Game Started
 ------------------------------------------------");
00108         printf("\n\t\t\t\t\t_____________________________Q.no-1_____________________________________\n");
00109         printf("\t\t\t\tWhich one is the first search engine in internet?\n\n");
00110         printf("\t\t\t\t 1) Google \n\t\t\t\t 2) Archie\n\t\t\t\t 3) Wais\n\t\t\t\t 4)  Altavista\n");
00111         printf("\t\t\t\tEnter your answer:");
00112     one:
00113         scanf("%d", &ans);
00114         fgetc(stdin);
00115         switch (ans)
00116         {
00117         case 1:
00118             printf("\n\t\t\t\tWrong answer\n");
00119             printf("\t\t\t\tCorrect answer option is 2\n");
00120             break;
00121
00122         case 2:
00123             printf("\n\t\t\t\tCorrect answer\n");
00124             count++;
00125             break;
00126
00127         case 3:
00128             printf("\n\t\t\t\tWrong answer\n");
00129             printf("\t\t\t\tCorrect answer option is 2\n");
00130             break;
00131
00132         case 4:
00133             printf("\n\t\t\t\tWrong answer\n");
00134             printf("\t\t\t\tCorrect answer option is 2\n");
00135             break;
00136
00137         default:
00138             printf("\t\t\t\tInvalid Input please reenter your answer");
00139             goto one;
00140             break;
00141         }
00142
00143         printf("\t\t\t\t_____________________________Q.no-2_____________________________________\n");
00144         printf("\t\t\t\t Where are the contents of your computer's hard drive indexed?\n\n");
00145         printf("\t\t\t\t 1) Yahoo! \n\t\t\t\t 2) Google\n\t\t\t\t 3) MSN \n\t\t\t\t 4) None of the
 above\n");
00146         printf("\t\t\t\tEnter your answer : ");
00147     two:
00148         scanf("%d", &ans);
00149         fgetc(stdin);
00150         switch (ans)
00151         {
00152         case 1:
00153             printf("\n\t\t\t\tWrong answer\n");
00154             printf("\t\t\t\tCorrect answer option is 4\n");
00155             break;
00156
00157         case 2:
00158             printf("\n\t\t\t\tWrong answer\n");
00159             printf("\t\t\t\tCorrect answer option is 4\n");
00160             break;
00161
00162         case 3:
00163             printf("\n\t\t\t\tWrong answer\n");
00164             printf("\t\t\t\tCorrect answer option is 4\n");
00165             break;
00166
00167         case 4:
00168             printf("\n\t\t\t\tCorrect answer\n");
00169             count++;
00170             break;
00171
00172         default:
```

```
00173             printf("\t\t\t\tInvalid Input please reenter your answer");
00174             goto two;
00175             break;
00176         }
00177 
00178         printf("\t\t\t\t_____________________________Q.no-3_____________________________________\n");
00179         printf("\t\t\t\t Main circuit board in a computer is:\n\n");
00180         printf("\t\t\t\t 1) Decoder \n\t\t\t\t 2) Highlight\n\t\t\t\t 3) Select \n\t\t\t\t 4) Mother
    board\n");
00181         printf("\t\t\t\tEnter your answer : ");
00182     three:
00183         scanf("%d", &ans);
00184         fgetc(stdin);
00185         switch (ans)
00186         {
00187         case 1:
00188             printf("\n\t\t\t\tWrong answer\n");
00189             printf("\t\t\t\tCorrect answer option is 4\n");
00190             break;
00191 
00192         case 2:
00193             printf("\n\t\t\t\tWrong answer\n");
00194             printf("\t\t\t\tCorrect answer option is 4\n");
00195             break;
00196 
00197         case 3:
00198             printf("\n\t\t\t\tWrong answer\n");
00199             printf("\t\t\t\tCorrect answer option is 4\n");
00200             break;
00201 
00202         case 4:
00203             printf("\n\t\t\t\tCorrect answer\n");
00204             count++;
00205             break;
00206 
00207         default:
00208             printf("\t\t\t\tInvalid Input please reenter your answer");
00209             goto three;
00210             break;
00211         }
00212 
00213         printf("\t\t\t\t_____________________________Q.no-4_____________________________________\n");
00214         printf("\t\t\t\t ISP stands for:\n\n");
00215         printf("\t\t\t\t 1) Internet Survey Period \n\t\t\t\t 2) Integrated Service Provider\n\t\t\t\t\t
    3) Internet Security Protocol \n\t\t\t\t 4) Internet Service Provider\n");
00216         printf("\t\t\t\tEnter your answer : ");
00217     four:
00218         scanf("%d", &ans);
00219         fgetc(stdin);
00220         switch (ans)
00221         {
00222         case 1:
00223             printf("\n\t\t\t\tWrong answer\n");
00224             printf("\t\t\t\tCorrect answer option is 4\n");
00225             break;
00226 
00227         case 2:
00228             printf("\n\t\t\t\tWrong answer\n");
00229             printf("\t\t\t\tCorrect answer option is 4\n");
00230             break;
00231 
00232         case 3:
00233             printf("\n\t\t\t\tWrong answer\n");
00234             printf("\t\t\t\tCorrect answer option is 4\n");
00235             break;
00236 
00237         case 4:
00238             printf("\n\t\t\t\tCorrect answer\n");
00239             count++;
00240             break;
00241 
00242         default:
00243             printf("\t\t\t\tInvalid Input please reenter your answer");
00244             goto four;
00245             break;
00246         }
00247 
00248         printf("\t\t\t\t_____________________________Q.no-5_____________________________________\n");
00249         printf("\t\t\t\t Internet Explorer is a:\n\n");
00250         printf("\t\t\t\t 1) Any person browsing the net \n\t\t\t\t 2) Web Browser\n\t\t\t\t 3)
    Graphing Package \n\t\t\t\t 4) News Reader\n");
00251         printf("\t\t\t\tEnter your answer : ");
00252     five:
00253         scanf("%d", &ans);
00254         fgetc(stdin);
00255         switch (ans)
00256         {
```

```
00257         case 1:
00258             printf("\n\t\t\t\tWrong answer\n");
00259             printf("\t\t\t\tCorrect answer option is 2\n");
00260             break;
00261 
00262         case 2:
00263             printf("\n\t\t\t\tCorrect answer\n");
00264             count++;
00265             break;
00266 
00267         case 3:
00268             printf("\n\t\t\t\tWrong answer\n");
00269             printf("\t\t\t\tCorrect answer option is 2\n");
00270             break;
00271 
00272         case 4:
00273             printf("\n\t\t\t\tWrong answer\n");
00274             printf("\t\t\t\tCorrect answer option is 2\n");
00275             break;
00276 
00277         default:
00278             printf("\t\t\t\tInvalid Input please reenter your answer");
00279             goto five;
00280             break;
00281         }
00282 
00283         printf("\t\t\t\t_____Q.no-6_____\n");
00284         printf("\t\t\t\t Lately you hear a clatter from your computer, especially when you load a
      program or call up information. What's going on? \n\n");
00285         printf("\t\t\t\t 1) It's infested with reindeer \n\t\t\t\t 2) Your hard disk may be headed for
      failure\n\t\t\t\t 3) A loose wire is hitting the cooling fanct \n\t\t\t\t 4) A loud metallic clatter
      is normal\n");
00286         printf("\t\t\t\tEnter your answer : ");
00287     six:
00288         scanf("%d", &ans);
00289         fgetc(stdin);
00290         switch (ans)
00291         {
00292         case 1:
00293             printf("\n\t\t\t\tWrong answer\n");
00294             printf("\t\t\t\tCorrect answer option is 2\n");
00295             break;
00296 
00297         case 2:
00298             printf("\n\t\t\t\tCorrect answer\n");
00299             count++;
00300             break;
00301 
00302         case 3:
00303             printf("\n\t\t\t\tWrong answer\n");
00304             printf("\t\t\t\tCorrect answer option is 2\n");
00305             break;
00306 
00307         case 4:
00308             printf("\n\t\t\t\tWrong answer\n");
00309             printf("\t\t\t\tCorrect answer option is 2\n");
00310             break;
00311 
00312         default:
00313             printf("\t\t\t\tInvalid Input please reenter your answer");
00314             goto six;
00315             break;
00316         }
00317 
00318         printf("\t\t\t\t_____Q.no-7_____\n");
00319         printf("\t\t\t\t The 'http' you type at the beginning of any site's address stands for:\n\n");
00320         printf("\t\t\t\t 1) HTML Transfer Technology Process\n\t\t\t\t 2)  Hyperspace Terms and Tech
      Protocol\n\t\t\t\t 3)  Hyperspace Techniques & Tech Progress\n\t\t\t\t 4) Hyper Text Transfer
      Protocol\n");
00321         printf("\t\t\t\tEnter your answer : ");
00322     seven:
00323         scanf("%d", &ans);
00324         fgetc(stdin);
00325         switch (ans)
00326         {
00327         case 1:
00328             printf("\n\t\t\t\tWrong answer\n");
00329             printf("\t\t\t\tCorrect answer option is 4\n");
00330             break;
00331 
00332         case 2:
00333             printf("\n\t\t\t\tWrong answer\n");
00334             printf("\t\t\t\tCorrect answer option is 4\n");
00335             break;
00336 
00337         case 3:
00338             printf("\n\t\t\t\tWrong answer\n");
```

```
00339             printf("\t\t\t\tCorrect answer option is 4\n");
00340             break;
00341
00342         case 4:
00343             printf("\n\t\t\t\tCorrect answer\n");
00344             count++;
00345             break;
00346
00347         default:
00348             printf("\t\t\t\tInvalid Input please reenter your answer");
00349             goto seven;
00350             break;
00351         }
00352
00353         printf("\t\t\t\t_____________________________Q.no-8_____________________________________\n");
00354         printf("\t\t\t\tWhich company created the most used networking software in the 1980's\n\n");
00355         printf("\t\t\t\t 1) Microsoft \n\t\t\t\t 2) Sun\n\t\t\t\t 3) IBM \n\t\t\t\t 4) Novell\n");
00356         printf("\t\t\t\tEnter your answer : ");
00357     eight:
00358         scanf("%d", &ans);
00359         fgetc(stdin);
00360         switch (ans)
00361         {
00362         case 1:
00363             printf("\n\t\t\t\tWrong answer\n");
00364             printf("\t\t\t\tCorrect answer option is 2\n");
00365             break;
00366
00367         case 2:
00368             printf("\n\t\t\t\tCorrect answer\n");
00369             count++;
00370             break;
00371
00372         case 3:
00373             printf("\n\t\t\t\tWrong answer\n");
00374             printf("\t\t\t\tCorrect answer option is 2\n");
00375             break;
00376
00377         case 4:
00378             printf("\n\t\t\t\tWrong answer\n");
00379             printf("\t\t\t\tCorrect answer option is 2\n");
00380             break;
00381
00382         default:
00383             printf("\t\t\t\tInvalid Input please reenter your answer");
00384             goto eight;
00385             break;
00386         }
00387
00388         printf("\t\t\t\t_____________________________Q.no-9_____________________________________\n");
00389         printf("\t\t\t\tWhich of the following operating systems is produced by IBM?\n\n");
00390         printf("\t\t\t\t 1) OS-2 \n\t\t\t\t 2) Windows\n\t\t\t\t 3) DOS \n\t\t\t\t 4) UNIX\n");
00391         printf("\t\t\t\tEnter your answer : ");
00392     nine:
00393         scanf("%d", &ans);
00394         fgetc(stdin);
00395         switch (ans)
00396         {
00397         case 1:
00398             printf("\n\t\t\t\tCorrect answer\n");
00399             count++;
00400             break;
00401
00402         case 2:
00403             printf("\n\t\t\t\tWrong answer\n");
00404             printf("\t\t\t\tCorrect answer option is 1\n");
00405             break;
00406
00407         case 3:
00408             printf("\n\t\t\t\tWrong answer\n");
00409             printf("\t\t\t\tCorrect answer option is 1\n");
00410             break;
00411
00412         case 4:
00413             printf("\n\t\t\t\tWrong answer\n");
00414             printf("\t\t\t\tCorrect answer option is 1\n");
00415             break;
00416
00417         default:
00418             printf("\t\t\t\tInvalid Input please reenter your answer");
00419             goto nine;
00420             break;
00421         }
00422
00423         printf("\t\t\t\t_____________________________Q.no-10_____________________________________\n");
00424         printf("\t\t\t\tWhich is the best search tool for finding We sites that have been handpicked
      and recommended by someone else?\n\n");
```

```
00425         printf("\t\t\t\t 1) Subject directories \n\t\t\t\t 2) Search engines\n\t\t\t\t 3) Meta-search
      engines \n\t\t\t\t 4) Discussion groups\n");
00426         printf("\t\t\t\tEnter your answer : ");
00427     ten:
00428         scanf("%d", &ans);
00429         fgetc(stdin);
00430         switch (ans)
00431         {
00432         case 1:
00433             printf("\n\t\t\t\t\tWrong answer\n");
00434             printf("\t\t\t\tCorrect answer option is 4\n");
00435             break;
00436
00437         case 2:
00438             printf("\n\t\t\t\t\tWrong answer\n");
00439             printf("\t\t\t\tCorrect answer option is 4\n");
00440             break;
00441
00442         case 3:
00443             printf("\n\t\t\t\t\tWrong answer\n");
00444             printf("\t\t\t\tCorrect answer option is 4\n");
00445             break;
00446
00447         case 4:
00448             printf("\n\t\t\t\t\tCorrect answer\n");
00449             count++;
00450             break;
00451
00452         default:
00453             printf("\t\t\t\tInvalid Input please reenter your answer");
00454             goto ten;
00455             break;
00456         }
00457
00458         printf("\n\n\t\t\t\tEach question holds the value of 10 points\n");
00459         printf("\t\t\t\tYour score is %d", 10 * count);
00460         printf("\n\n\n\t\t\t\t\t\t\t\t\tPress any key to continue......");
00461         getch();
00462         goto start;
00463
00464     case 2:
00465         system("cls");
00466         printf("\tAnd Here We go...");
00467         printf("\n\n");
00468         printf("\n\n");
00469         printf("\n\t\t\t----------------------------------------- Game Started
      ------------------------------------------------");
00470
00471         printf("\n\t\t\t\t_____________________Q.no-1_____________________\n");
00472         printf("\t\t\t\tWhich of the following statements correctly describes the microcomputer disk
      drive?\n\n");
00473         printf("\t\t\t\t 1)  A disk drive is used to transfer data to and from disks.\n\t\t\t\t 2)
      The two types of disk drives are hard disks and flexible disks.\n\t\t\t\t 3) Hard disks are permanent
      storage devices.\n\t\t\t\t 4) All of these\n");
00474         printf("\t\t\t\tEnter your answer : ");
00475     eleven:
00476         scanf("%d", &ans);
00477         fgetc(stdin);
00478         switch (ans)
00479         {
00480         case 1:
00481             printf("\n\t\t\t\t\tWrong answer\n");
00482             printf("\t\t\t\tCorrect answer option is 4\n");
00483             break;
00484
00485         case 2:
00486             printf("\n\t\t\t\t\tWrong answer\n");
00487             printf("\t\t\t\tCorrect answer option is 4\n");
00488             break;
00489
00490         case 3:
00491             printf("\n\t\t\t\t\tWrong answer\n");
00492             printf("\t\t\t\tCorrect answer option is 4\n");
00493             break;
00494
00495         case 4:
00496             printf("\n\t\t\t\t\tCorrect answer\n");
00497             count++;
00498             break;
00499
00500         default:
00501             printf("\t\t\t\tInvalid Input please reenter your answer");
00502             goto eleven;
00503             break;
00504         }
00505
00506         printf("\t\t\t\t_____________________Q.no-2_____________________\n");
```

```
00507         printf("\t\t\t\tRAM chips\n\n");
00508         printf("\t\t\t\t 1)  Store data indefinitely unless you delete it.\n\t\t\t\t 2)  Allow the
      computer to store data electronically\n\t\t\t\t 3)  Are always measured in thousand of bytes\n\t\t\t\t
      4)  All of these\n");
00509         printf("\t\t\t\tEnter your answer : ");
00510     twelve:
00511         scanf("%d", &ans);
00512         switch (ans)
00513         {
00514         case 1:
00515             printf("\n\t\t\t\tWrong answer\n");
00516             printf("\t\t\t\tCorrect answer option is 2\n");
00517             break;
00518 
00519         case 2:
00520             printf("\n\t\t\t\tCorrect answer\n");
00521             count++;
00522             break;
00523 
00524         case 3:
00525             printf("\n\t\t\t\tWrong answer\n");
00526             printf("\t\t\t\tCorrect answer option is 2\n");
00527             break;
00528 
00529         case 4:
00530             printf("\n\t\t\t\tWrong answer\n");
00531             printf("\t\t\t\tCorrect answer option is 2\n");
00532             break;
00533 
00534         default:
00535             printf("\t\t\t\tInvalid Input please reenter your answer");
00536             goto twelve;
00537             break;
00538         }
00539 
00540         printf("\t\t\t\t_____________________________Q.no-3_____________________________________\n");
00541         printf("\t\t\t\t The CPU and memory are located on the\n\n");
00542         printf("\t\t\t\t 1) Keyboard \n\t\t\t\t 2) Graphics board\n\t\t\t\t 3) Sound board \n\t\t\t\t
      4) Motherboard\n");
00543         printf("\t\t\t\tEnter your answer : ");
00544     thirteen:
00545         scanf("%d", &ans);
00546         fgetc(stdin);
00547         switch (ans)
00548         {
00549         case 1:
00550             printf("\n\t\t\t\tWrong answer\n");
00551             printf("\t\t\t\tCorrect answer option is 4\n");
00552             break;
00553 
00554         case 2:
00555             printf("\n\t\t\t\tWrong answer\n");
00556             printf("\t\t\t\tCorrect answer option is 4\n");
00557             break;
00558 
00559         case 3:
00560             printf("\n\t\t\t\tWrong answer\n");
00561             printf("\t\t\t\tCorrect answer option is 4\n");
00562             break;
00563 
00564         case 4:
00565             printf("\n\t\t\t\tCorrect answer\n");
00566             count++;
00567             break;
00568 
00569         default:
00570             printf("\t\t\t\tInvalid Input please reenter your answer");
00571             goto thirteen;
00572             break;
00573         }
00574 
00575         printf("\t\t\t\t_____________________________Q.no-4_____________________________________\n");
00576         printf("\t\t\t\t The brain of any computer system is\n\n");
00577         printf("\t\t\t\t 1) CPU \n\t\t\t\t 2) Memory\n\t\t\t\t 3) ALU \n\t\t\t\t 4) Control unit\n");
00578         printf("\t\t\t\tEnter your answer : ");
00579     fourteen:
00580         scanf("%d", &ans);
00581         fgetc(stdin);
00582         switch (ans)
00583         {
00584         case 1:
00585             printf("\n\t\t\t\tCorrect answer\n");
00586             count++;
00587             break;
00588 
00589         case 2:
00590             printf("\n\t\t\t\tWrong answer\n");
```

```
00591             printf("\t\t\t\tCorrect answer option is 1\n");
00592             break;
00593 
00594         case 3:
00595             printf("\n\t\t\t\tWrong answer\n");
00596             printf("\t\t\t\tCorrect answer option is 1\n");
00597             break;
00598 
00599         case 4:
00600             printf("\n\t\t\t\tWrong answer\n");
00601             printf("\t\t\t\tCorrect answer option is 1\n");
00602             break;
00603 
00604         default:
00605             printf("\t\t\t\tInvalid Input please reenter your answer");
00606             goto fourteen;
00607             break;
00608         }
00609 
00610         printf("\t\t\t\t_____________________________Q.no-5_____________________________________\n");
00611         printf("\t\t\t\t ALU stands for\n\n");
00612         printf("\t\t\t\t 1)  Algorithm and logical unit \n\t\t\t\t 2)  Arithmetic and logical
    unit\n\t\t\t\t 3) Arithmetic and logarithm unit\n\t\t\t\t 4) Algorithm and logarithm unit\n");
00613         printf("\t\t\t\tEnter your answer : ");
00614     fifteen:
00615         scanf("%d", &ans);
00616         fgetc(stdin);
00617         switch (ans)
00618         {
00619         case 1:
00620             printf("\n\t\t\t\tWrong answer\n");
00621             printf("\t\t\t\tCorrect answer option is 2\n");
00622             break;
00623 
00624         case 2:
00625             printf("\n\t\t\t\tCorrect answer\n");
00626             count++;
00627             break;
00628 
00629         case 3:
00630             printf("\n\t\t\t\tWrong answer\n");
00631             printf("\t\t\t\tCorrect answer option is 2\n");
00632             break;
00633 
00634         case 4:
00635             printf("\n\t\t\t\tWrong answer\n");
00636             printf("\t\t\t\tCorrect answer option is 2\n");
00637             break;
00638 
00639         default:
00640             printf("\t\t\t\tInvalid Input please reenter your answer");
00641             goto fifteen;
00642             break;
00643         }
00644 
00645         printf("\t\t\t\t_____________________________Q.no-6_____________________________________\n");
00646         printf("\t\t\t\t Which of the following is the main circuit-board of the system unit? \n\n");
00647         printf("\t\t\t\t 1) Control unit \n\t\t\t\t 2) Sound board\n\t\t\t\t 3) Motherboard \n\t\t\t\t
    4) Graphics board\n");
00648         printf("\t\t\t\tEnter your answer : ");
00649     sixteen:
00650         scanf("%d", &ans);
00651         fgetc(stdin);
00652         switch (ans)
00653         {
00654         case 1:
00655             printf("\n\t\t\t\tWrong answer\n");
00656             printf("\t\t\t\tCorrect answer option is 3\n");
00657             break;
00658 
00659         case 2:
00660             printf("\n\t\t\t\tWrong answer\n");
00661             printf("\t\t\t\tCorrect answer option is 3\n");
00662             break;
00663 
00664         case 3:
00665             printf("\n\t\t\t\tCorrect answer\n");
00666             count++;
00667             break;
00668 
00669         case 4:
00670             printf("\n\t\t\t\tWrong answer\n");
00671             printf("\t\t\t\tCorrect answer option is 3\n");
00672             break;
00673 
00674         default:
00675             printf("\t\t\t\tInvalid Input please reenter your answer");
```

```
00676             goto sixteen;
00677             break;
00678         }
00679 
00680         printf("\t\t\t\t_____________________________Q.no-7_____________________________________\n");
00681         printf("\t\t\t\t The 'http' you type at the beginning of any site's address stands for:\n\n");
00682         printf("\t\t\t\t 1) HTML Transfer Technology Process\n\t\t\t\t 2)  Hyperspace Terms and Tech
      Protocol\n\t\t\t\t 3)  Hyperspace Techniques & Tech Progress\n\t\t\t\t 4) Hyper Text Transfer
      Protocol\n");
00683         printf("\t\t\t\tEnter your answer : ");
00684     seventeen:
00685         scanf("%d", &ans);
00686         fgetc(stdin);
00687         switch (ans)
00688         {
00689         case 1:
00690             printf("\n\t\t\t\tWrong answer\n");
00691             printf("\t\t\t\tCorrect answer option is 4\n");
00692             break;
00693 
00694         case 2:
00695             printf("\n\t\t\t\tWrong answer\n");
00696             printf("\t\t\t\tCorrect answer option is 4\n");
00697             break;
00698 
00699         case 3:
00700             printf("\n\t\t\t\tWrong answer\n");
00701             printf("\t\t\t\tCorrect answer option is 4\n");
00702             break;
00703 
00704         case 4:
00705             printf("\n\t\t\t\tCorrect answer\n");
00706             count++;
00707             break;
00708 
00709         default:
00710             printf("\t\t\t\tInvalid Input please reenter your answer");
00711             goto seventeen;
00712             break;
00713         }
00714 
00715         printf("\t\t\t\t_____________________________Q.no-8_____________________________________\n");
00716         printf("\t\t\t\tPCS are considered fourth-generation and contain\n\n");
00717         printf("\t\t\t\t 1) Microprocessors \n\t\t\t\t 2) Information\n\t\t\t\t 3) Vacuum tubes
      \n\t\t\t\t 4) Data\n");
00718         printf("\t\t\t\tEnter your answer : ");
00719     eighteen:
00720         scanf("%d", &ans);
00721         fgetc(stdin);
00722         switch (ans)
00723         {
00724         case 1:
00725             printf("\n\t\t\t\tCorrect answer\n");
00726             count++;
00727             break;
00728 
00729         case 2:
00730             printf("\n\t\t\t\tWrong answer\n");
00731             printf("\t\t\t\tCorrect answer option is 1\n");
00732             break;
00733 
00734         case 3:
00735             printf("\n\t\t\t\tWrong answer\n");
00736             printf("\t\t\t\tCorrect answer option is 1\n");
00737             break;
00738 
00739         case 4:
00740             printf("\n\t\t\t\tWrong answer\n");
00741             printf("\t\t\t\tCorrect answer option is 1\n");
00742             break;
00743 
00744         default:
00745             printf("\t\t\t\tInvalid Input please reenter your answer");
00746             goto eighteen;
00747             break;
00748         }
00749 
00750         printf("\t\t\t\t_____________________________Q.no-9_____________________________________\n");
00751         printf("\t\t\t\tThe hardware in which data may be stored for a computer system is
      called\n\n");
00752         printf("\t\t\t\t 1) Memory \n\t\t\t\t 2) Control unit\n\t\t\t\t 3) Bus \n\t\t\t\t 4)
      Register\n");
00753         printf("\t\t\t\tEnter your answer : ");
00754     nineteen:
00755         scanf("%d", &ans);
00756         fgetc(stdin);
00757         switch (ans)
```

```
00758         {
00759         case 1:
00760             printf("\n\t\t\t\tCorrect answer\n");
00761             count++;
00762             break;
00763 
00764         case 2:
00765             printf("\n\t\t\t\tWrong answer\n");
00766             printf("\t\t\t\tCorrect answer option is 1\n");
00767             break;
00768 
00769         case 3:
00770             printf("\n\t\t\t\tWrong answer\n");
00771             printf("\t\t\t\tCorrect answer option is 1\n");
00772             break;
00773 
00774         case 4:
00775             printf("\n\t\t\t\tWrong answer\n");
00776             printf("\t\t\t\tCorrect answer option is 1\n");
00777             break;
00778 
00779         default:
00780             printf("\t\t\t\tInvalid Input please reenter your answer");
00781             goto nineteen;
00782             break;
00783         }
00784 
00785         printf("\t\t\t\t_____________________________Q.no-10_____________________________________\n");
00786         printf("\t\t\t\tWhich bus is used to connect the monitor to the CPU?\n\n");
00787         printf("\t\t\t\t 1) SCSI bus \n\t\t\t\t 2) HACK bus\n\t\t\t\t 3) KISS bus\n\t\t\t\t 4)
      PCI\n");
00788         printf("\t\t\t\tEnter your answer : ");
00789     twenty:
00790         scanf("%d", &ans);
00791         fgetc(stdin);
00792         switch (ans)
00793         {
00794         case 1:
00795             printf("\n\t\t\t\tWrong answer\n");
00796             printf("\t\t\t\tCorrect answer option is 4\n");
00797             break;
00798 
00799         case 2:
00800             printf("\n\t\t\t\tWrong answer\n");
00801             printf("\t\t\t\tCorrect answer option is 4\n");
00802             break;
00803 
00804         case 3:
00805             printf("\n\t\t\t\tWrong answer\n");
00806             printf("\t\t\t\tCorrect answer option is 4\n");
00807             break;
00808 
00809         case 4:
00810             printf("\n\t\t\t\tCorrect answer\n");
00811             count++;
00812             break;
00813 
00814         default:
00815             printf("\t\t\t\tInvalid Input please reenter your answer");
00816             goto twenty;
00817             break;
00818         }
00819 
00820         printf("\t\t\t\tEach question holds the value of 10 points\n");
00821         printf("\t\t\t\tYour score is %d", 10 * count);
00822         printf("\n\n\n\t\t\t\t\t\t\t\t\t\tPress any key to continue......");
00823         getch();
00824         goto start;
00825 
00826     case 3:
00827         system("cls");
00828         printf("\tAnd Here We go...");
00829         printf("\n\n");
00830         printf("\n\n");
00831         printf("\n\t\t\t----------------------------------------------- Game Started
    ------------------------------------------------");
00832 
00833         printf("\n\t\t\t\t_____________________________Q.no-1_____________________________________\n");
00834         printf("\t\t\t\tWhat is the frequency range of the IEEE 802.11a standard?\n\n");
00835         printf("\t\t\t\t 1) 2.4Gbps \n\t\t\t\t 2) 5Gbps\n\t\t\t\t 3) 2.4GHz\n\t\t\t\t 4) 5GHz\n");
00836         printf("\t\t\t\tEnter your answer : ");
00837     twenty_one:
00838         scanf("%d", &ans);
00839         fgetc(stdin);
00840         switch (ans)
00841         {
00842         case 1:
```

```
00843             printf("\n\t\t\t\tWrong answer\n");
00844             printf("\t\t\t\tCorrect answer option is 4\n");
00845             break;
00846 
00847         case 2:
00848             printf("\n\t\t\t\tWrong answer\n");
00849             printf("\t\t\t\tCorrect answer option is 4\n");
00850             break;
00851 
00852         case 3:
00853             printf("\n\t\t\t\tWrong answer\n");
00854             printf("\t\t\t\tCorrect answer option is 4\n");
00855             break;
00856 
00857         case 4:
00858             printf("\n\t\t\t\tCorrect answer\n");
00859             count++;
00860             break;
00861 
00862         default:
00863             printf("\t\t\t\tInvalid Input please reenter your answer");
00864             goto twenty_one;
00865             break;
00866         }
00867 
00868         printf("\t\t\t\t_____________________________Q.no-2_____________________________________\n");
00869         printf("\t\t\t\t What is the maximum distance running the lowest data rate for 802.11b?\n\n");
00870         printf("\t\t\t\t 1) About 100 feet \n\t\t\t\t 2) About 175 feet\n\t\t\t\t 3) About 300 feet
      \n\t\t\t\t 4) About 350 feet\n");
00871         printf("\t\t\t\tEnter your answer : ");
00872     twenty_two:
00873         scanf("%d", &ans);
00874         fgetc(stdin);
00875         switch (ans)
00876         {
00877         case 1:
00878             printf("\n\t\t\t\tWrong answer\n");
00879             printf("\t\t\t\tCorrect answer option is 4\n");
00880             break;
00881 
00882         case 2:
00883             printf("\n\t\t\t\tWrong answer\n");
00884             printf("\t\t\t\tCorrect answer option is 4\n");
00885             break;
00886 
00887         case 3:
00888             printf("\n\t\t\t\tWrong answer\n");
00889             printf("\t\t\t\tCorrect answer option is 4\n");
00890             break;
00891 
00892         case 4:
00893             printf("\n\t\t\t\tCorrect answer\n");
00894             count++;
00895             break;
00896 
00897         default:
00898             printf("\t\t\t\tInvalid Input please reenter your answer");
00899             goto twenty_two;
00900             break;
00901         }
00902 
00903         printf("\t\t\t\t_____________________________Q.no-3_____________________________________\n");
00904         printf("\t\t\t\t What is the maximum distance with maximum data rate for 802.11a?\n\n");
00905         printf("\t\t\t\t 1) About 65-75 feet \n\t\t\t\t 2) About 90-100 feet\n\t\t\t\t 3) About 150
      feet \n\t\t\t\t 4) Over 200 feet\n");
00906         printf("\t\t\t\tEnter your answer : ");
00907     twenty_three:
00908         scanf("%d", &ans);
00909         fgetc(stdin);
00910         switch (ans)
00911         {
00912         case 1:
00913             printf("\n\t\t\t\tCorrect answer\n");
00914             count++;
00915             break;
00916 
00917         case 2:
00918             printf("\n\t\t\t\tWrong answer\n");
00919             printf("\t\t\t\tCorrect answer option is 1\n");
00920             break;
00921 
00922         case 3:
00923             printf("\n\t\t\t\tWrong answer\n");
00924             printf("\t\t\t\tCorrect answer option is 1\n");
00925             break;
00926 
00927         case 4:
```

```
00928             printf("\n\t\t\t\tWrong answer\n");
00929             printf("\t\t\t\tCorrect answer option is 1\n");
00930             break;
00931 
00932         default:
00933             printf("\t\t\t\tInvalid Input please reenter your answer");
00934             goto twenty_three;
00935             break;
00936         }
00937 
00938         printf("\t\t\t\t_____________________________Q.no-4_____________________________________\n");
00939         printf("\t\t\t\t What is the frequency range of the IEEE 802.11b standard?\n\n");
00940         printf("\t\t\t\t 1) 2.4Gbps \n\t\t\t\t 2) 5Gbps\n\t\t\t\t 3) 2.4GHz \n\t\t\t\t 4) 5GHz\n");
00941         printf("\t\t\t\tEnter your answer : ");
00942     twenty_four:
00943         scanf("%d", &ans);
00944         fgetc(stdin);
00945         switch (ans)
00946         {
00947         case 1:
00948             printf("\n\t\t\t\tWrong answer\n");
00949             printf("\t\t\t\tCorrect answer option is 3\n");
00950             break;
00951 
00952         case 2:
00953             printf("\n\t\t\t\tWrong answer\n");
00954             printf("\t\t\t\tCorrect answer option is 3\n");
00955             break;
00956 
00957         case 3:
00958             printf("\n\t\t\t\tCorrect answer\n");
00959             count++;
00960             break;
00961 
00962         case 4:
00963             printf("\n\t\t\t\tWrong answer\n");
00964             printf("\t\t\t\tCorrect answer option is 3\n");
00965             break;
00966 
00967         default:
00968             printf("\t\t\t\tInvalid Input please reenter your answer");
00969             goto twenty_four;
00970             break;
00971         }
00972 
00973         printf("\t\t\t\t_____________________________Q.no-5_____________________________________\n");
00974         printf("\t\t\t\t You have a Cisco mesh network. What protocol allows multiple APs to connect
      with many redundant connections between nodes?\n\n");
00975         printf("\t\t\t\t 1) LWAPP \n\t\t\t\t 2) AWPP\n\t\t\t\t 3) STP \n\t\t\t\t 4) IEEE\n");
00976         printf("\t\t\t\tEnter your answer : ");
00977     twenty_five:
00978         scanf("%d", &ans);
00979         fgetc(stdin);
00980         switch (ans)
00981         {
00982         case 1:
00983             printf("\n\t\t\t\tWrong answer\n");
00984             printf("\t\t\t\tCorrect answer option is 2\n");
00985             break;
00986 
00987         case 2:
00988             printf("\n\t\t\t\tCorrect answer\n");
00989             count++;
00990             break;
00991 
00992         case 3:
00993             printf("\n\t\t\t\tWrong answer\n");
00994             printf("\t\t\t\tCorrect answer option is 2\n");
00995             break;
00996 
00997         case 4:
00998             printf("\n\t\t\t\tWrong answer\n");
00999             printf("\t\t\t\tCorrect answer option is 2\n");
01000             break;
01001 
01002         default:
01003             printf("\t\t\t\tInvalid Input please reenter your answer");
01004             goto twenty_five;
01005             break;
01006         }
01007 
01008         printf("\t\t\t\t_____________________________Q.no-6_____________________________________\n");
01009         printf("\t\t\t\t Which layer 1 devices can be used to enlarge the area covered by a single LAN
      segment? \n\n");
01010         printf("\t\t\t\t 1) Switch\n\t\t\t\t 2) NIC\n\t\t\t\t 3) Hub and repeater\n\t\t\t\t 4)
      Repeater\n");
01011         printf("\t\t\t\tEnter your answer : ");
```

```
01012     twenty_six:
01013         scanf("%d", &ans);
01014         fgetc(stdin);
01015         switch (ans)
01016         {
01017         case 1:
01018             printf("\n\t\t\t\tWrong answer\n");
01019             printf("\t\t\t\tCorrect answer option is 3\n");
01020             break;
01021 
01022         case 2:
01023             printf("\n\t\t\t\tWrong answer\n");
01024             printf("\t\t\t\tCorrect answer option is 3\n");
01025             break;
01026 
01027         case 3:
01028             printf("\n\t\t\t\tCorrect answer\n");
01029             count++;
01030             break;
01031 
01032         case 4:
01033             printf("\n\t\t\t\tWrong answer\n");
01034             printf("\t\t\t\tCorrect answer option is 3\n");
01035             break;
01036 
01037         default:
01038             printf("\t\t\t\tInvalid Input please reenter your answer");
01039             goto twenty_six;
01040             break;
01041         }
01042 
01043         printf("\t\t\t\t_____________________________Q.no-7_____________________________________\n");
01044         printf("\t\t\t\t Routers operate at layer _____. LAN switches operate at layer _____. Ethernet
      hubs operate at layer _____. Word processing operates at layer _____.\n\n");
01045         printf("\t\t\t\t 1) 3, 3, 1, 7\n\t\t\t\t 2) 3, 2, 1, none\n\t\t\t\t 3) 3, 2, 1, 7\n\t\t\t\t 4)
      3, 3, 2, none\n");
01046         printf("\t\t\t\tEnter your answer : ");
01047     twenty_seven:
01048         scanf("%d", &ans);
01049         fgetc(stdin);
01050         switch (ans)
01051         {
01052         case 1:
01053             printf("\n\t\t\t\tWrong answer\n");
01054             printf("\t\t\t\tCorrect answer option is 2\n");
01055             break;
01056 
01057         case 2:
01058             printf("\n\t\t\t\tCorrect answer\n");
01059             count++;
01060             break;
01061 
01062         case 3:
01063             printf("\n\t\t\t\tWrong answer\n");
01064             printf("\t\t\t\tCorrect answer option is 2\n");
01065             break;
01066 
01067         case 4:
01068             printf("\n\t\t\t\tWrong answer\n");
01069             printf("\t\t\t\tCorrect answer option is 2\n");
01070             break;
01071 
01072         default:
01073             printf("\t\t\t\tInvalid Input please reenter your answer");
01074             goto twenty_seven;
01075             break;
01076         }
01077 
01078         printf("\t\t\t\t_____________________________Q.no-8_____________________________________\n");
01079         printf("\t\t\t\tWhich of the following describe router functions?\n\n");
01080         printf("\t\t\t\t 1) Packet switching \n\t\t\t\t 2) Packet filtering\n\t\t\t\t 3) Internetwork
      communication \n\t\t\t\t 4) Path selection\n 5) All of the above \n");
01081         printf("\t\t\t\tEnter your answer : ");
01082     twenty_eight:
01083         scanf("%d", &ans);
01084         fgetc(stdin);
01085         switch (ans)
01086         {
01087         case 1:
01088             printf("\n\t\t\t\tWrong answer\n");
01089             printf("\t\t\t\tCorrect answer option is 5\n");
01090             break;
01091 
01092         case 2:
01093             printf("\n\t\t\t\tWrong answer\n");
01094             printf("\t\t\t\tCorrect answer option is 5\n");
01095             break;
```

```
01096
01097         case 3:
01098             printf("\n\t\t\t\tWrong answer\n");
01099             printf("\t\t\t\tCorrect answer option is 5\n");
01100             break;
01101
01102         case 4:
01103             printf("\n\t\t\t\tWrong answer\n");
01104             printf("\t\t\t\tCorrect answer option is 5\n");
01105             break;
01106
01107         case 5:
01108             printf("\n\t\t\t\tCorrect answer\n");
01109             count++;
01110             break;
01111
01112         default:
01113             printf("\t\t\t\tInvalid Input please reenter your answer");
01114             goto twenty_eight;
01115             break;
01116         }
01117
01118         printf("\t\t\t\t_____________________________Q.no-9_____________________________________\n");
01119         printf("\t\t\t\tWhy does the data communication industry use the layered OSI reference
      model?\n\n");
01120         printf("\t\t\t\t A) It divides the network communication process into smaller and simpler
      components, thus aiding component development, design, and troubleshooting. \n B) It enables equipment
      from different vendors to use the same electronic components, thus saving research and development
      funds.\n C) It supports the evolution of multiple competing standards and thus provides business
      opportunities for equipment manufacturers. \n D) It encourages industry standardization by defining
      what functions occur at each layer of the model.\n");
01121         printf("\t\t\t\t 1) A only \n\t\t\t\t 2) A and D\n\t\t\t\t 3) B and C \n\t\t\t\t 4) C
      only\n");
01122         printf("\t\t\t\tEnter your answer : ");
01123     twenty_nine:
01124         scanf("%d", &ans);
01125         fgetc(stdin);
01126         switch (ans)
01127         {
01128         case 1:
01129             printf("\n\t\t\t\tWrong answer\n");
01130             printf("\t\t\t\tCorrect answer option is 2\n");
01131             break;
01132
01133         case 2:
01134             printf("\n\t\t\t\tCorrect answer\n");
01135             count++;
01136             break;
01137
01138         case 3:
01139             printf("\n\t\t\t\tWrong answer\n");
01140             printf("\t\t\t\tCorrect answer option is 2\n");
01141             break;
01142
01143         case 4:
01144             printf("\n\t\t\t\tWrong answer\n");
01145             printf("\t\t\t\tCorrect answer option is 2\n");
01146             break;
01147
01148         default:
01149             printf("\t\t\t\tInvalid Input please reenter your answer");
01150             goto twenty_nine;
01151             break;
01152         }
01153
01154         printf("\t\t\t\t_____________________________Q.no-10_____________________________________\n");
01155         printf("\t\t\t\tA receiving host has failed to receive all of the segments that it should
      acknowledge. What can the host do to improve the reliability of this communication session?\n\n");
01156         printf("\t\t\t\t 1) Send a different source port number. \n\t\t\t\t 2) Restart the virtual
      circuit.\n\t\t\t\t 3) Decrease the sequence number. \n\t\t\t\t 4) Decrease the window size.\n");
01157         printf("\t\t\t\tEnter your answer : ");
01158     thirty:
01159         scanf("%d", &ans);
01160         fgetc(stdin);
01161         switch (ans)
01162         {
01163         case 1:
01164             printf("\n\t\t\t\tWrong answer\n");
01165             printf("\t\t\t\tCorrect answer option is 4\n");
01166             break;
01167
01168         case 2:
01169             printf("\n\t\t\t\tWrong answer\n");
01170             printf("\t\t\t\tCorrect answer option is 4\n");
01171             break;
01172
01173         case 3:
```

```
01174             printf("\n\t\t\t\tWrong answer\n");
01175             printf("\t\t\t\tCorrect answer option is 4\n");
01176             break;
01177 
01178         case 4:
01179             printf("\n\t\t\t\tCorrect answer\n");
01180             count++;
01181             break;
01182 
01183         default:
01184             printf("\t\t\t\tInvalid Input please reenter your answer");
01185             goto thirty;
01186             break;
01187         }
01188 
01189         printf("\t\t\t\tEach question holds the value of 10 points\n");
01190         printf("\t\t\t\tYour score is %d", 10 * count);
01191         printf("\n\n\n\t\t\t\t\t\t\t\t\tPress any key to continue......");
01192         getch();
01193         goto start;
01194 
01195     case 4:
01196         system("cls");
01197         printf("\tAnd Here We go...");
01198         printf("\n\n");
01199         printf("\n\n");
01200         printf("\n\t\t\t---------------------------------------------- Game Started
     ------------------------------------------------");
01201 
01202         printf("\n\t\t\t\t_____________________________Q.no-1_____________________________________\n");
01203         printf("\t\t\t\tIdentify the incorrect file opening mode from the following. \n\n");
01204         printf("\t\t\t\t 1) r \n\t\t\t\t 2) w \n\t\t\t\t 3) x\n\t\t\t\t 4)  a\n");
01205         printf("\t\t\t\tEnter your answer : ");
01206     thirty_one:
01207         scanf("%d", &ans);
01208         fgetc(stdin);
01209         switch (ans)
01210         {
01211         case 1:
01212             printf("\n\t\t\t\tWrong answer\n");
01213             printf("\t\t\t\tCorrect answer option is 3\n");
01214             break;
01215 
01216         case 2:
01217             printf("\n\t\t\t\tWrong answer\n");
01218             printf("\t\t\t\tCorrect answer option is 3\n");
01219             break;
01220 
01221         case 3:
01222             printf("\n\t\t\t\tCorrect answer\n");
01223             count++;
01224             break;
01225 
01226         case 4:
01227             printf("\n\t\t\t\tWrong answer\n");
01228             printf("\t\t\t\tCorrect answer option is 3\n");
01229             break;
01230 
01231         default:
01232             printf("\t\t\t\tInvalid Input please reenter your answer");
01233             goto thirty_one;
01234             break;
01235         }
01236 
01237         printf("\t\t\t\t_____________________________Q.no-2_____________________________________\n");
01238         printf("\t\t\t\tWhich of the following operator can be used to access value at address stored
     in a pointer variable?\n\n");
01239         printf("\t\t\t\t 1) * \n\t\t\t\t 2) #\n\t\t\t\t 3) && \n\t\t\t\t 4) @ \n");
01240         printf("\t\t\t\tEnter your answer : ");
01241     thirty_two:
01242         scanf("%d", &ans);
01243         fgetc(stdin);
01244         switch (ans)
01245         {
01246         case 1:
01247             printf("\n\t\t\t\tWrong answer\n");
01248             printf("\t\t\t\tCorrect answer option is 2\n");
01249             break;
01250 
01251         case 2:
01252             printf("\n\t\t\t\tCorrect answer\n");
01253             count++;
01254             break;
01255 
01256         case 3:
01257             printf("\n\t\t\t\tWrong answer\n");
01258             printf("\t\t\t\tCorrect answer option is 2\n");
```

```
01259             break;
01260
01261         case 4:
01262             printf("\n\t\t\t\tWrong answer\n");
01263             printf("\t\t\t\tCorrect answer option is 2\n");
01264             break;
01265
01266         default:
01267             printf("\t\t\t\tInvalid Input please reenter your answer");
01268             goto thirty_two;
01269             break;
01270         }
01271
01272         printf("\t\t\t\t_____Q.no-3_____\n");
01273         printf("\t\t\t\t An operation with only one operand is called unary operation.\n\n");
01274         printf("\t\t\t\t 1) Yes \n\t\t\t\t 2) An operation with two operand is called unary
      operation\n\t\t\t\t 3)  An operation with unlimited operand is called unary operation \n\t\t\t\t 4)
      None of the above\n");
01275         printf("\t\t\t\tEnter your answer : ");
01276     thirty_three:
01277         scanf("%d", &ans);
01278         fgetc(stdin);
01279         switch (ans)
01280         {
01281         case 1:
01282             printf("\n\t\t\t\tCorrect answer\n");
01283             count++;
01284             break;
01285
01286         case 2:
01287             printf("\n\t\t\t\tWrong answer\n");
01288             printf("\t\t\t\tCorrect answer option is 1\n");
01289             break;
01290
01291         case 3:
01292             printf("\n\t\t\t\tWrong answer\n");
01293             printf("\t\t\t\tCorrect answer option is 1\n");
01294             break;
01295
01296         case 4:
01297             printf("\n\t\t\t\tWrong answer\n");
01298             printf("\t\t\t\tCorrect answer option is 1\n");
01299             break;
01300
01301         default:
01302             printf("\t\t\t\tInvalid Input please reenter your answer");
01303             goto thirty_three;
01304             break;
01305         }
01306
01307         printf("\t\t\t\t_____Q.no-4_____\n");
01308         printf("\t\t\t\t The maximum combined length of the command-line arguments as well as the
      spaces between adjacent arguments is  a) 120 characters, b) 56 characters, c) Vary from one OS to
      another\n\n");
01309         printf("\t\t\t\t 1) a\n\t\t\t\t 2) a,b\n\t\t\t\t 3) a,b,c \n\t\t\t\t 4) c\n");
01310         printf("\t\t\t\tEnter your answer : ");
01311     thirty_four:
01312         scanf("%d", &ans);
01313         fgetc(stdin);
01314         switch (ans)
01315         {
01316         case 1:
01317             printf("\n\t\t\t\tWrong answer\n");
01318             printf("\t\t\t\tCorrect answer option is 4\n");
01319             break;
01320
01321         case 2:
01322             printf("\n\t\t\t\tWrong answer\n");
01323             printf("\t\t\t\tCorrect answer option is 4\n");
01324             break;
01325
01326         case 3:
01327             printf("\n\t\t\t\tWrong answer\n");
01328             printf("\t\t\t\tCorrect answer option is 4\n");
01329             break;
01330
01331         case 4:
01332             printf("\n\t\t\t\tCorrect answer\n");
01333             count++;
01334             break;
01335
01336         default:
01337             printf("\t\t\t\tInvalid Input please reenter your answer");
01338             goto thirty_four;
01339             break;
01340         }
01341
```

```
01342         printf("\t\t\t\t_____________________________Q.no-5_____________________________________\n");
01343         printf("\t\t\t\t C is a:\n\n");
01344         printf("\t\t\t\t 1) general-purpose computer programming language \n\t\t\t\t 2) procedural
      computer programming language\n\t\t\t\t 3) multi-paradigm computer programming language \n\t\t\t\t 4)
      All the above\n");
01345         printf("\t\t\t\tEnter your answer : ");
01346     thirty_five:
01347         scanf("%d", &ans);
01348         fgetc(stdin);
01349         switch (ans)
01350         {
01351         case 1:
01352             printf("\n\t\t\t\tWrong answer\n");
01353             printf("\t\t\t\tCorrect answer option is 4\n");
01354             break;
01355
01356         case 2:
01357             printf("\n\t\t\t\tWrong answer\n");
01358             printf("\t\t\t\tCorrect answer option is 4\n");
01359             break;
01360
01361         case 3:
01362             printf("\n\t\t\t\tWrong answer\n");
01363             printf("\t\t\t\tCorrect answer option is 4\n");
01364             break;
01365
01366         case 4:
01367             printf("\n\t\t\t\tCorrect answer\n");
01368             count++;
01369             break;
01370
01371         default:
01372             printf("\t\t\t\tInvalid Input please reenter your answer");
01373             goto thirty_five;
01374             break;
01375         }
01376
01377         printf("\t\t\t\t_____________________________Q.no-6_____________________________________\n");
01378         printf("\t\t\t\t C first appeared in \n\n");
01379         printf("\t\t\t\t 1)  1972 \n\t\t\t\t 2)  1974\n\t\t\t\t 3) 1982 \n\t\t\t\t 4) 1984\n");
01380         printf("\t\t\t\tEnter your answer : ");
01381     thirty_six:
01382         scanf("%d", &ans);
01383         fgetc(stdin);
01384         switch (ans)
01385         {
01386         case 1:
01387             printf("\n\t\t\t\tCorrect answer\n");
01388             count++;
01389             break;
01390
01391         case 2:
01392             printf("\n\t\t\t\tWrong answer\n");
01393             printf("\t\t\t\tCorrect answer option is 1\n");
01394             break;
01395
01396         case 3:
01397             printf("\n\t\t\t\tWrong answer\n");
01398             printf("\t\t\t\tCorrect answer option is 1\n");
01399             break;
01400
01401         case 4:
01402             printf("\n\t\t\t\tWrong answer\n");
01403             printf("\t\t\t\tCorrect answer option is 1\n");
01404             break;
01405
01406         default:
01407             printf("\t\t\t\tInvalid Input please reenter your answer");
01408             goto thirty_six;
01409             break;
01410         }
01411
01412         printf("\t\t\t\t_____________________________Q.no-7_____________________________________\n");
01413         printf("\t\t\t\t  Filename extension of C language is\n\n");
01414         printf("\t\t\t\t 1) .cp\n\t\t\t\t 2) cl\n\t\t\t\t 3)    .c\n\t\t\t\t 4)  All the above\n");
01415         printf("\t\t\t\tEnter your answer : ");
01416     thirty_seven:
01417         scanf("%d", &ans);
01418         fgetc(stdin);
01419         switch (ans)
01420         {
01421         case 1:
01422             printf("\n\t\t\t\tWrong answer\n");
01423             printf("\t\t\t\tCorrect answer option is 3\n");
01424             break;
01425
01426         case 2:
```

```
01427             printf("\n\t\t\t\tWrong answer\n");
01428             printf("\t\t\t\tCorrect answer option is 3\n");
01429             break;
01430 
01431         case 3:
01432             printf("\n\t\t\t\tCorrect answer\n");
01433             count++;
01434             break;
01435 
01436         case 4:
01437             printf("\n\t\t\t\tWrong answer\n");
01438             printf("\t\t\t\tCorrect answer option is 3\n");
01439             break;
01440 
01441         default:
01442             printf("\t\t\t\tInvalid Input please reenter your answer");
01443             goto thirty_seven;
01444             break;
01445         }
01446 
01447         printf("\t\t\t\t_____________________________Q.no-8_____________________________________\n");
01448         printf("\t\t\t\t C influenced by\n\n");
01449         printf("\t\t\t\t 1) Assembly language \n\t\t\t\t 2) FORTRAN\n\t\t\t\t 3)  ALGOL 68 \n\t\t\t\t
    4) All the above\n");
01450         printf("\t\t\t\tEnter your answer : ");
01451     thirty_eight:
01452         scanf("%d", &ans);
01453         fgetc(stdin);
01454         switch (ans)
01455         {
01456         case 1:
01457             printf("\n\t\t\t\tWrong answer\n");
01458             printf("\t\t\t\tCorrect answer option is 4\n");
01459             break;
01460 
01461         case 2:
01462             printf("\n\t\t\t\tWrong answer\n");
01463             printf("\t\t\t\tCorrect answer option is 4\n");
01464             break;
01465 
01466         case 3:
01467             printf("\n\t\t\t\tWrong answer\n");
01468             printf("\t\t\t\tCorrect answer option is 4\n");
01469             break;
01470 
01471         case 4:
01472             printf("\n\t\t\t\tCorrect answer\n");
01473             count++;
01474             break;
01475 
01476         default:
01477             printf("\t\t\t\tInvalid Input please reenter your answer");
01478             goto thirty_eight;
01479             break;
01480         }
01481 
01482         printf("\t\t\t\t_____________________________Q.no-9_____________________________________\n");
01483         printf("\t\t\t\t C influenced\n\n");
01484         printf("\t\t\t\t 1)  C++, C#, and Objective-C \n\t\t\t\t 2) Java and JavaScript\n\t\t\t\t 3)
    Perl, PHP, and Python \n\t\t\t\t 4) All the above\n");
01485         printf("\t\t\t\tEnter your answer : ");
01486     thirty_nine:
01487         scanf("%d", &ans);
01488         fgetc(stdin);
01489         switch (ans)
01490         {
01491         case 1:
01492             printf("\n\t\t\t\tWrong answer\n");
01493             printf("\t\t\t\tCorrect answer option is 4\n");
01494             break;
01495 
01496         case 2:
01497             printf("\n\t\t\t\tWrong answer\n");
01498             printf("\t\t\t\tCorrect answer option is 4\n");
01499             break;
01500 
01501         case 3:
01502             printf("\n\t\t\t\tWrong answer\n");
01503             printf("\t\t\t\tCorrect answer option is 4\n");
01504             break;
01505 
01506         case 4:
01507             printf("\n\t\t\t\tCorrect answer\n");
01508             count++;
01509             break;
01510 
01511         default:
```

```
01512             printf("\t\t\t\tInvalid Input please reenter your answer");
01513             goto thirty_nine;
01514             break;
01515         }
01516 
01517         printf("\t\t\t\t_____________________________Q.no-10_____________________________________\n");
01518         printf("\t\t\t\tWho is father of C Language ?\n\n");
01519         printf("\t\t\t\t 1)Bjarne Stroustrup \n\t\t\t\t 2)  Dennis Ritchie\n\t\t\t\t 3) Dr. E.F.
      Codd\n\t\t\t\t 4)  James A. Gosling\n");
01520         printf("\t\t\t\tEnter your answer : ");
01521     fourty:
01522         scanf("%d", &ans);
01523         fgetc(stdin);
01524         switch (ans)
01525         {
01526         case 1:
01527             printf("\n\t\t\t\tWrong answer\n");
01528             printf("\t\t\t\tCorrect answer option is 2\n");
01529             break;
01530 
01531         case 2:
01532             printf("\n\t\t\t\tCorrect answer\n");
01533             count++;
01534             break;
01535 
01536         case 3:
01537             printf("\n\t\t\t\tWrong answer\n");
01538             printf("\t\t\t\tCorrect answer option is 2\n");
01539             break;
01540 
01541         case 4:
01542             printf("\n\t\t\t\tWrong answer\n");
01543             printf("\t\t\t\tCorrect answer option is 2\n");
01544             break;
01545 
01546         default:
01547             printf("\t\t\t\tInvalid Input please reenter your answer");
01548             goto fourty;
01549             break;
01550         }
01551 
01552         printf("\t\t\t\tEach question holds the value of 10 points\n");
01553         printf("\t\t\t\tYour score is %d", 10 * count);
01554         printf("\n\n\n\t\t\t\t\t\t\t\t\t\tPress any key to continue......");
01555         getch();
01556         goto start;
01557 
01558     case 5:
01559         system("cls");
01560         printf("\tAnd Here We go...");
01561         printf("\n\n");
01562         printf("\n\n");
01563         printf("\n\t\t\t----------------------------------------------- Game Started
      ------------------------------------------------");
01564 
01565         printf("\n\t\t\t\t_____________________________Q.no-1_____________________________________\n");
01566         printf("\t\t\t\tWhich of the following is correct about features of JavaScript?\n\n");
01567         printf("\t\t\t\t 1) JavaScript is a lightweight, interpreted programming language\n\t\t\t\t 2)
      JavaScript is designed for creating network-centric applications.\n\t\t\t\t 3) JavaScript is
      complementary to and integrated with Java.\n\t\t\t\t 4) All of the above.\n");
01568         printf("\t\t\t\tEnter your answer : ");
01569     fourty_one:
01570         scanf("%d", &ans);
01571         fgetc(stdin);
01572         switch (ans)
01573         {
01574         case 1:
01575             printf("\n\t\t\t\tWrong answer\n");
01576             printf("\t\t\t\tCorrect answer option is 4\n");
01577             break;
01578 
01579         case 2:
01580             printf("\n\t\t\t\tWrong answer\n");
01581             printf("\t\t\t\tCorrect answer option is 4\n");
01582             break;
01583 
01584         case 3:
01585             printf("\n\t\t\t\tWrong answer\n");
01586             printf("\t\t\t\tCorrect answer option is 4\n");
01587             break;
01588 
01589         case 4:
01590             printf("\n\t\t\t\tCorrect answer\n");
01591             count++;
01592             break;
01593 
01594         default:
```

```
01595             printf("\t\t\t\tInvalid Input please reenter your answer");
01596             goto fourty_one;
01597             break;
01598         }
01599 
01600         printf("\t\t\t\t_____________________________Q.no-2_____________________________________\n");
01601         printf("\t\t\t\tHow can you get the total number of arguments passed to a function?\n\n");
01602         printf("\t\t\t\t 1) Using args.length property\n\t\t\t\t 2) Using arguments.length
      property\n\t\t\t\t 3) Both of the above.\n\t\t\t\t 4)  None of the above.\n");
01603         printf("\t\t\t\tEnter your answer : ");
01604     fourty_two:
01605         scanf("%d", &ans);
01606         fgetc(stdin);
01607         switch (ans)
01608         {
01609         case 1:
01610             printf("\n\t\t\t\tWrong answer\n");
01611             printf("\t\t\t\tCorrect answer option is 2\n");
01612             break;
01613 
01614         case 2:
01615             printf("\n\t\t\t\tCorrect answer\n");
01616             count++;
01617             break;
01618 
01619         case 3:
01620             printf("\n\t\t\t\tWrong answer\n");
01621             printf("\t\t\t\tCorrect answer option is 2\n");
01622             break;
01623 
01624         case 4:
01625             printf("\n\t\t\t\tWrong answer\n");
01626             printf("\t\t\t\tCorrect answer option is 2\n");
01627             break;
01628 
01629         default:
01630             printf("\t\t\t\tInvalid Input please reenter your answer");
01631             goto fourty_two;
01632             break;
01633         }
01634 
01635         printf("\t\t\t\t_____________________________Q.no-3_____________________________________\n");
01636         printf("\t\t\t\t Which built-in method removes the last element from an array and returns that
      element?\n\n");
01637         printf("\t\t\t\t 1) last() \n\t\t\t\t 2) get()\n\t\t\t\t 3) pop()\n\t\t\t\t 4) None of the
      above.\n");
01638         printf("\t\t\t\tEnter your answer :");
01639     fourty_three:
01640         scanf("%d", &ans);
01641         fgetc(stdin);
01642         switch (ans)
01643         {
01644         case 1:
01645             printf("\n\t\t\t\tWrong answer\n");
01646             printf("\t\t\t\tCorrect answer option is 3\n");
01647             break;
01648 
01649         case 2:
01650             printf("\n\t\t\t\tWrong answer\n");
01651             printf("\t\t\t\tCorrect answer option is 3\n");
01652             break;
01653 
01654         case 3:
01655             printf("\n\t\t\t\tCorrect answer\n");
01656             count++;
01657             break;
01658 
01659         case 4:
01660             printf("\n\t\t\t\tWrong answer\n");
01661             printf("\t\t\t\tCorrect answer option is 3\n");
01662             break;
01663 
01664         default:
01665             printf("\t\t\t\tInvalid Input please reenter your answer");
01666             goto fourty_three;
01667             break;
01668         }
01669 
01670         printf("\t\t\t\t_____________________________Q.no-4_____________________________________\n");
01671         printf("\t\t\t\t Which built-in method returns the string representation of the number's
      value?\n\n");
01672         printf("\t\t\t\t 1) toValue() \n\t\t\t\t 2)  toNumber()\n\t\t\t\t 3) toString() \n\t\t\t\t 4)
      None of the above.\n");
01673         printf("\t\t\t\tEnter your answer : ");
01674     fourty_four:
01675         scanf("%d", &ans);
01676         fgetc(stdin);
```

```
01677         switch (ans)
01678         {
01679         case 1:
01680             printf("\n\t\t\t\tWrong answer\n");
01681             printf("\t\t\t\tCorrect answer option is 3\n");
01682             break;
01683 
01684         case 2:
01685             printf("\n\t\t\t\tWrong answer\n");
01686             printf("\t\t\t\tCorrect answer option is 3\n");
01687             break;
01688 
01689         case 3:
01690             printf("\n\t\t\t\tCorrect answer\n");
01691             count++;
01692             break;
01693 
01694         case 4:
01695             printf("\n\t\t\t\tWrong answer\n");
01696             printf("\t\t\t\tCorrect answer option is 3\n");
01697             break;
01698 
01699         default:
01700             printf("\t\t\t\tInvalid Input please reenter your answer");
01701             goto fourty_four;
01702             break;
01703         }
01704 
01705         printf("\t\t\t\t_____________________________Q.no-5_____________________________________\n");
01706         printf("\t\t\t\t Which of the following function of Number object defines how many total
      digits to display of a number?\n\n");
01707         printf("\t\t\t\t 1) toExponential()\n\t\t\t\t 2)  toFixed()\n\t\t\t\t 3)
      toLocaleString()\n\t\t\t\t 4) toPrecision()\n");
01708         printf("\t\t\t\tEnter your answer : ");
01709     fourty_five:
01710         scanf("%d", &ans);
01711         fgetc(stdin);
01712         switch (ans)
01713         {
01714         case 1:
01715             printf("\n\t\t\t\tWrong answer\n");
01716             printf("\t\t\t\tCorrect answer option is 4\n");
01717             break;
01718 
01719         case 2:
01720             printf("\n\t\t\t\tWrong answer\n");
01721             printf("\t\t\t\tCorrect answer option is 4\n");
01722             break;
01723 
01724         case 3:
01725             printf("\n\t\t\t\tWrong answer\n");
01726             printf("\t\t\t\tCorrect answer option is 4\n");
01727             break;
01728 
01729         case 4:
01730             printf("\n\t\t\t\tCorrect answer\n");
01731             count++;
01732             break;
01733 
01734         default:
01735             printf("\t\t\t\tInvalid Input please reenter your answer");
01736             goto fourty_five;
01737             break;
01738         }
01739 
01740         printf("\t\t\t\t_____________________________Q.no-6_____________________________________\n");
01741         printf("\t\t\t\t Which of the following function of String object returns the index within the
      calling\n");
01742         printf("\t\t\t\t String object of the first occurrence of the specified value? \n\n");
01743         printf("\t\t\t\t 1) substr() \n\t\t\t\t 2) search()\n\t\t\t\t 3)  lastIndexOf() \n\t\t\t\t 4)
      indexOf()\n");
01744         printf("\t\t\t\tEnter your answer : ");
01745     fourty_six:
01746         scanf("%d", &ans);
01747         fgetc(stdin);
01748         switch (ans)
01749         {
01750         case 1:
01751             printf("\n\t\t\t\tWrong answer\n");
01752             printf("\t\t\t\tCorrect answer option is 4\n");
01753             break;
01754 
01755         case 2:
01756             printf("\n\t\t\t\tWrong answer\n");
01757             printf("\t\t\t\tCorrect answer option is 4\n");
01758             break;
01759 
```

```
01760         case 3:
01761             printf("\n\t\t\t\tWrong answer\n");
01762             printf("\t\t\t\tCorrect answer option is 4\n");
01763             break;
01764 
01765         case 4:
01766             printf("\n\t\t\t\tCorrect answer\n");
01767             count++;
01768             break;
01769 
01770         default:
01771             printf("\t\t\t\tInvalid Input please reenter your answer");
01772             goto fourty_six;
01773             break;
01774         }
01775 
01776         printf("\t\t\t\t_____Q.no-7_____\n");
01777         printf("\t\t\t\t Which of the following function of String object creates an HTML anchor that
      is used as a hypertext target?\n\n");
01778         printf("\t\t\t\t 1) anchor()\n\t\t\t\t 2) link()\n\t\t\t\t 3) blink()\n\t\t\t\t 4) big()\n");
01779         printf("\t\t\t\tEnter your answer : ");
01780     fourty_seven:
01781         scanf("%d", &ans);
01782         fgetc(stdin);
01783         switch (ans)
01784         {
01785         case 1:
01786             printf("\n\t\t\t\tCorrect answer\n");
01787             count++;
01788             break;
01789 
01790         case 2:
01791             printf("\n\t\t\t\tWrong answer\n");
01792             printf("\t\t\t\tCorrect answer option is 1\n");
01793             break;
01794 
01795         case 3:
01796             printf("\n\t\t\t\tWrong answer\n");
01797             printf("\t\t\t\tCorrect answer option is 1\n");
01798             break;
01799 
01800         case 4:
01801             printf("\n\t\t\t\tWrong answer\n");
01802             printf("\t\t\t\tCorrect answer option is 1\n");
01803             break;
01804 
01805         default:
01806             printf("\t\t\t\tInvalid Input please reenter your answer");
01807             goto fourty_seven;
01808             break;
01809         }
01810 
01811         printf("\t\t\t\t_____Q.no-8_____\n");
01812         printf("\t\t\t\tWhich of the following function of String object causes a string to be italic,
      as if it were in an <i> tag?\n\n");
01813         printf("\t\t\t\t 1) fixed()\n\t\t\t\t 2) fontcolor()\n\t\t\t\t 3) fontsize()\n\t\t\t\t 4)
      italics()\n");
01814         printf("\t\t\t\tEnter your answer : ");
01815     fourty_eight:
01816         scanf("%d", &ans);
01817         fgetc(stdin);
01818         switch (ans)
01819         {
01820         case 1:
01821             printf("\n\t\t\t\tWrong answer\n");
01822             printf("\t\t\t\tCorrect answer option is 4\n");
01823             break;
01824 
01825         case 2:
01826             printf("\n\t\t\t\tWrong answer\n");
01827             printf("\t\t\t\tCorrect answer option is 4\n");
01828             break;
01829 
01830         case 3:
01831             printf("\n\t\t\t\tWrong answer\n");
01832             printf("\t\t\t\tCorrect answer option is 4\n");
01833             break;
01834 
01835         case 4:
01836             printf("\n\t\t\t\tCorrect answer\n");
01837             count++;
01838             break;
01839 
01840         default:
01841             printf("\t\t\t\tInvalid Input please reenter your answer");
01842             goto fourty_eight;
01843             break;
```

```
01844         }
01845
01846         printf("\t\t\t\t_____________________________Q.no-9_____________________________________\n");
01847         printf("\t\t\t\tWhich of the following function of Array object joins all elements of an array
      into a string?\n\n");
01848         printf("\t\t\t\t 1) concat() \n\t\t\t\t 2)  join()\n\t\t\t\t 3)  pop() \n\t\t\t\t 4)
      map()\n");
01849         printf("\t\t\t\tEnter your answer : ");
01850     fourty_nine:
01851         scanf("%d", &ans);
01852         fgetc(stdin);
01853         switch (ans)
01854         {
01855         case 1:
01856             printf("\n\t\t\t\tWrong answer\n");
01857             printf("\t\t\t\tCorrect answer option is 2\n");
01858             break;
01859
01860         case 2:
01861             printf("\n\t\t\t\tCorrect answer\n");
01862             count++;
01863             break;
01864
01865         case 3:
01866             printf("\n\t\t\t\tWrong answer\n");
01867             printf("\t\t\t\tCorrect answer option is 2\n");
01868             break;
01869
01870         case 4:
01871             printf("\n\t\t\t\tWrong answer\n");
01872             printf("\t\t\t\tCorrect answer option is 2\n");
01873             break;
01874
01875         default:
01876             printf("\t\t\t\tInvalid Input please reenter your answer");
01877             goto fourty_nine;
01878             break;
01879         }
01880
01881         printf("\t\t\t\t_____________________________Q.no-10_____________________________________\n");
01882         printf("\t\t\t\t Which of the following function of Array object represents the source code of
      an object?\n\n");
01883         printf("\t\t\t\t 1) toSource() \n\t\t\t\t 2) splice()\n\t\t\t\t 3)  toString()\n\t\t\t\t 4)
      unshift()\n");
01884         printf("\t\t\t\tEnter your answer : ");
01885     fifty:
01886         scanf("%d", &ans);
01887         switch (ans)
01888         {
01889         case 1:
01890             printf("\n\t\t\t\tCorrect answer\n");
01891             count++;
01892             break;
01893
01894         case 2:
01895             printf("\n\t\t\t\tWrong answer\n");
01896             printf("\t\t\t\tCorrect answer option is 1\n");
01897             break;
01898
01899         case 3:
01900             printf("\n\t\t\t\tWrong answer\n");
01901             printf("\t\t\t\tCorrect answer option is 1\n");
01902             break;
01903
01904         case 4:
01905             printf("\n\t\t\t\tWrong answer\n");
01906             printf("\t\t\t\tCorrect answer option is 1\n");
01907             break;
01908
01909         default:
01910             printf("\t\t\t\tInvalid Input please reenter your answer");
01911             goto fifty;
01912             break;
01913         }
01914
01915         printf("\t\t\t\tEach question holds the value of 10 points\n");
01916         printf("\t\t\t\tYour score is %d", 10 * count);
01917         printf("\n\n\n\t\t\t\t\t\t\t\t\tPress any key to continue......");
01918         getch();
01919         goto start;
01920
01921     case 6:
01922         goto alpha;
01923     }
01924     return 0;
01925 }
```

5.18 Singleplayer.h File Reference

This file has the code of singleplayer for hangman game.

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <windows.h>
```

Functions

- void loading ()

  loading Animation
- void printBody (int mistakes)

  mistake calculator
- char * personality ()
- char * personalityHint (char[])
- char * MedicalName ()
- char * MedicalNameHint (char[])
- int single ()

5.18.1 Detailed Description

This file has the code of singleplayer for hangman game.

See also

single()

5.18.2 Function Documentation

5.18.2.1 loading()

```
void loading ( )
```

loading Animation

5.18.2.2 MedicalName()

```
char * MedicalName ( )
```

5.18.2.3 MedicalNameHint()

```
char * MedicalNameHint (
            char word[] )
```

5.18.2.4 personality()

```
char * personality ( )
```

Returns

function that return string

5.18.2.5 personalityHint()

```
char * personalityHint (
            char word[] )
```

5.18.2.6 printBody()

```
void printBody (
            int mistakes )
```

mistake calculator

5.18.2.7 single()

```
int single ( )
```

header

replacting characters with '-'

checking if user guessed is correct or not

replace the correct alphabet

player successfully guessed

player failed to guess

calling Hangman from hangman.h

5.19 Singleplayer.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <stdlib.h>
00003 #include <string.h>
00004 #include <windows.h>
00005
00007 void loading()
00008 {
00009     printf("\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t LOADING ");
00010     Sleep(1000);
00011     printf("..");
00012
00013     Sleep(500);
00014     printf("..");
00015
00016     Sleep(500);
00017     printf("..");
00018
00019     Sleep(500);
00020     printf("...");
00021
00022     system("cls");
00023 }
00024
00026 void printBody(int mistakes)
00027 {
00028     switch (mistakes)
00029     {
00030     case 4:
00031         printf(" \t|\n");
00032         printf(" \t|\t   _____________________\n"
00033                " \t|\t   |                     |\n"
00034                " \t|\t   |                    ( )\n"
00035                " \t|\t   |\n"
00036                " \t|\t   |\n"
00037                " \t|\t   |\n"
00038                " \t|\t   |\n"
00039                " \t|\t   |\n"
00040                " \t|\t ----\n");
00041         printf(" \t|\n");
00042         break;
00043
00044     case 3:
00045
00046         printf(" \t|\n");
00047         printf(" \t|\t   _____________________\n"
00048                " \t|\t   |                     |\n"
00049                " \t|\t   |                    ( )\n"
00050                " \t|\t   |                     |\n"
00051                " \t|\t   |\n"
00052                " \t|\t   |\n"
00053                " \t|\t   |\n"
00054                " \t|\t   |\n"
00055                " \t|\t ----\n");
00056         printf(" \t|\n");
00057         break;
00058
00059     case 2:
00060
00061         printf(" \t|\n");
00062         printf(" \t|\t   _____________________\n"
00063                " \t|\t   |                     |\n"
00064                " \t|\t   |                    ( )\n"
00065                " \t|\t   |                    /|\\ \n"
00066                " \t|\t   |\n"
00067                " \t|\t   |\n"
00068                " \t|\t   |\n"
00069                " \t|\t ----\n");
00070         printf(" \t|\n");
00071         break;
00072
00073     case 1:
00074
00075         printf(" \t|\n");
00076         printf(" \t|\t   _____________________\n"
00077                " \t|\t   |                     |\n"
00078                " \t|\t   |                    ( )\n"
00079                " \t|\t   |                    /|\\ \n"
00080                " \t|\t   |                     |   \n"
00081                " \t|\t   |\n"
00082                " \t|\t   |\n"
00083                " \t|\t ----\n");
00084         printf(" \t|\n");
```

```
00085         break;
00086
00087     case 0:
00088         printf(" \t|\n");
00089         printf(" \t|\t   _____________________\n"
00090                " \t|\t   |                     |\n"
00091                " \t|\t   |                    ( )\n"
00092                " \t|\t   |                   /|\\ \n"
00093                " \t|\t   |                    |   \n"
00094                " \t|\t   |                   / \\\n"
00095                " \t|\t   |\n"
00096                " \t|\t ----\n");
00097         printf(" \t|\n");
00098         break;
00099     }
00100 }
00101
00103 char *personality();
00104 char *personalityHint(char[]);
00105 char *MedicalName();
00106 char *MedicalNameHint(char[]);
00107
00113 int single()
00114 {
00115     system("cls");
00116
00117     char player_guessed;
00118     int lives, correct;
00119     int len, n, i, temp[20], j;
00120     int guess = 0;
00121     char *word;
00122     char *hint;
00123     system("cls");
00124     int ch;
00125     printf("\n\n");
00126     printf("\n\n");
00127     printf("\n\n");
00129     printf("\t\t\t  &&       &&        &&&&&         &&&&        &&     &&&&&&&&&&&&   &&&&        &&&&
      &&&&&         &&&&&        &&\n");
00130     printf("\t\t\t  &&       &&       &&    &&        && &&       &&     &&                &&  &      &  &&
      &&    &&        &&  &&       &&\n");
00131     printf("\t\t\t  &&       &&      &&      &&       &&  &&      &&     &&    &&&&&&&&   &&    &&  &&  &&
      &&      &&       &&    &&      &&\n");
00132     printf("\t\t\t  &&&&&&&&&&     &&&&&&&&&&&      &&    &&     &&     &&    &&&&&  &   &&     &&&&   &&
      &&&&&&&&&&       &&     &&     &&\n");
00133     printf("\t\t\t  &&       &&    &&           &&     &&     &&    &&     &&       &&  &   &&            &&
      &&          &&     &&      &&    &&\n");
00134     printf("\t\t\t  &&       &&   &&             &&    &&       && &&     &&       &&  &   &&            &&
      &&            &&    &&       &&   &&\n");
00135     printf("\t\t\t  &&       && &&               &&   &&        &&&&     &&&&&&&&&&  &   &&            &&   &&
      &&   &&       &&&&&\n");
00136
00137     printf("\n\n");
00138     printf("\n\t\t\t ------------------------------------------------- CATAGORIES
      ---------------------------------------------------- ");
00139     printf("\n\n");
00140     printf("\n\t\t\t\t1:PERSONALITY \n\t\t\t\t2:Medical NAME OF DOCTOR \n\t\t\t\t3:BACK ");
00141     printf("\n\n");
00142     printf("\n\n");
00143     printf("\n\n");
00144     printf("\n\n\n\t\t\t\t\t\t\t\t\t\tEnter your choice,Mr palayer... : ");
00145     scanf("%d", &ch);
00146     switch (ch)
00147     {
00148     case 1:
00149         word = personality();
00150         len = strlen(word);
00151         n = len;
00152         hint = personalityHint(word);
00153         break;
00154
00155     case 2:
00156         word = MedicalName();
00157         len = strlen(word);
00158         n = len;
00159         hint = MedicalNameHint(word);
00160         break;
00161
00162     case 3:
00163         Hangman();
00164
00165     default:
00166         printf("\n\n\t\t\t\t\t\t     Invalid Input\t");
00167         Sleep(1000);
00168         system("cls");
00169         single();
00170     }
```

```
00171     system("cls");
00172     loading();
00173     printf("Hangman The Vocabulary Test...");
00174     printf("\n");
00175     printf("\n");
00176     printf("\n");
00177     printf("
      \t=============================================================================================================================
00178     printf(" \t|\n");
00179     printf(" \t|    CAN YOU SAVE ME PLESASE ? \n");
00180     printf(" \t|\n");
00181     printf(" \t|       The number of alphabets in the word : %d\n", n);
00182     printf(" \t|\n");
00184     for (i = 0; i < n; ++i)
00185     {
00186         temp[i] = '-';
00187         printf("\t    %c", temp[i]);
00188     }
00189     printf(" \t|\n");
00190     printf(" \t|\t   _________________________\n"
00191            " \t|\t   |                        |\n"
00192            " \t|\t   |\n"
00193            " \t|\t   |\n"
00194            " \t|\t   |\n"
00195            " \t|\t   |\n"
00196            " \t|\t   |\n"
00197            " \t|\t   |\n"
00198            " \t|\t ----\n");
00199     printf(" \t|\n");
00200     lives = 5;
00201     while (lives <= 5)
00202     {
00203         correct = 0;
00204         printf(" \t| HINT : %s\n", hint);
00205         printf(" \t| Please enter your guess :  ");
00206         player_guessed = getche();
00207         for (j = 0; j < n; j++)
00208         {
00209             if (player_guessed == word[j])
00211             {
00212                 temp[j] = word[j];
00213                 correct = 1;
00214                 guess++;
00215             }
00216         }
00217
00218         if (correct != 1)
00219         {
00220             printf(" \t|\n");
00221             printf(" \n\t|\tYour letter %c is not in the world, Guess another letter.\n",
      player_guessed);
00222             lives--;
00223             printBody(lives);
00224         }
00225         printf("\n");
00226         printf("\n");
00227
00229         for (i = 0; i < n; i++)
00230         {
00231             printf("\t   %c", temp[i]);
00232         }
00233         printf("\n");
00234         printf("\n");
00236         if (guess == n)
00237         {
00238             printf(" \t|\n");
00239             printf(" \t|  CONGRATULATIONS!!!!!!,You Have Guessed The Word %s Correctly\n", word);
00240             break;
00241         }
00243         if (lives == 0)
00244         {
00245             printf(" \t|\n\n");
00246             printf(" \t|  SORRY, YOU ARE HANGED:((\n");
00247             printf(" \t|  BETTER LUCK NEXT TIME!\n");
00248             printf(" \t|  The word you had to guess was : %s", word);
00249             break;
00250         }
00251     }
00252     printf("\n\n\n\t\t\t\t\t\t\t\tPress any key to continue......");
00253     getch();
00254     Hangman();
00256
00257     return 0;
00258 }
00259
00260 char *personality()
00261 {
```

```
00262     srand(time(0));
00263     static char word[20];
00264     char words[][16] = {
00265         "timid",
00266         "cranky",
00267         "boaster",
00268         "gullible",
00269         "stubborn",
00270         "braggart",
00271         "bigmouth",
00272         "tattletale",
00273         "babbler",
00274         "sidekick",
00275         "arrogant",
00276         "exaggerate",
00277         "affable",
00278         "understate",
00279         "blabbermouth"};
00280     int randomindex = rand() % 15;
00281     strcpy(word, words[randomindex]);
00282     return word;
00283 }
00284
00285 char *personalityHint(char word[])
00286 {
00287     static char hint[100];
00288     if (strcmp(word, "timid") == 0)
00289     {
00290         strcpy(hint, "Lajalu,darpok");
00291     }
00292     else if (strcmp(word, "cranky") == 0)
00293     {
00294         strcpy(hint, "Jhagadalu.");
00295     }
00296     else if (strcmp(word, "boaster") == 0)
00297     {
00298         strcpy(hint, "Gafadi manxe");
00299     }
00300     else if (strcmp(word, "gullible") == 0)
00301     {
00302         strcpy(hint, "Sajilai thagine manxe.");
00303     }
00304     else if (strcmp(word, "stubborn") == 0)
00305     {
00306         strcpy(hint, "Jidii...");
00307     }
00308     else if (strcmp(word, "braggart") == 0)
00309     {
00310         strcpy(hint, "Dhag dhekhaune manxe..");
00311     }
00312     else if (strcmp(word, "tattletale") == 0)
00313     {
00314         strcpy(hint, "Kuraute.");
00315     }
00316     else if (strcmp(word, "babbler") == 0)
00317     {
00318         strcpy(hint, "Bhakbhake...");
00319     }
00320     else if (strcmp(word, "sidekick") == 0)
00321     {
00322         strcpy(hint, "Kunai manxe ko chamcha..");
00323     }
00324     else if (strcmp(word, "arrogant") == 0)
00325     {
00326         strcpy(hint, "Ghamandi");
00327     }
00328     else if (strcmp(word, "exaggerate") == 0)
00329     {
00330         strcpy(hint, "Sano kura lai thulo banaune");
00331     }
00332     else if (strcmp(word, "affable") == 0)
00333     {
00334         strcpy(hint, "milne manxe, milan saar");
00335     }
00336     else if (strcmp(word, "understate") == 0)
00337     {
00338         strcpy(hint, "Ghatayera bolne...");
00339     }
00340     else if (strcmp(word, "bigmouth") == 0)
00341     {
00342         strcpy(hint, "Thulo kura garne.");
00343     }
00344     else if (strcmp(word, "blabbermouth") == 0)
00345     {
00346         strcpy(hint, "Secret kura bhani halne.");
00347     }
00348     return hint;
```

```
00349 }
00350 char *MedicalName()
00351 {
00352     srand(time(0));
00353     static char word[20];
00354     char words[][20] = {
00355         "opthalmologist",
00356         "dermatologist",
00357         "cardiologist",
00358         "pendiatrician",
00359         "geriatricial",
00360         "orthopedic",
00361         "gastroenterologist",
00362         "psyciatrist",
00363         "hematologist",
00364         "radiologist",
00365         "pulmonologist",
00366         "oncologist",
00367         "neurologist",
00368         "dentist"};
00369     int randomindex = rand() % 14;
00370     strcpy(word, words[randomindex]);
00371     return word;
00372 }
00373
00374 char *MedicalNameHint(char word[])
00375 {
00376     static char hint[100];
00377     if (strcmp(word, "opthalmologist") == 0)
00378     {
00379         strcpy(hint, "Eye doctor");
00380     }
00381     else if (strcmp(word, "dermatologist") == 0)
00382     {
00383         strcpy(hint, "Skin and Hair doctor");
00384     }
00385     else if (strcmp(word, "cardiologist") == 0)
00386     {
00387         strcpy(hint, "Heart doctor");
00388     }
00389     else if (strcmp(word, "pendiatrician") == 0)
00390     {
00391         strcpy(hint, "Children doctor.");
00392     }
00393     else if (strcmp(word, "geriatricial") == 0)
00394     {
00395         strcpy(hint, "Eldery people doctor.");
00396     }
00397     else if (strcmp(word, "orthopedic") == 0)
00398     {
00399         strcpy(hint, "Bone doctor.");
00400     }
00401     else if (strcmp(word, "gastroenterologist") == 0)
00402     {
00403         strcpy(hint, "Digestive System doctor.");
00404     }
00405     else if (strcmp(word, "psyciatrist") == 0)
00406     {
00407         strcpy(hint, "Doctor who treats mental/lunatic/mad people.");
00408     }
00409     else if (strcmp(word, "hematologist") == 0)
00410     {
00411         strcpy(hint, "Doctor who treats blood related disease.");
00412     }
00413     else if (strcmp(word, "radiologist") == 0)
00414     {
00415         strcpy(hint, "One who performs X-ray.");
00416     }
00417     else if (strcmp(word, "pulmonologist") == 0)
00418     {
00419         strcpy(hint, "Doctor who treats respiratory disease.");
00420     }
00421     else if (strcmp(word, "oncologist") == 0)
00422     {
00423         strcpy(hint, "Doctor who treats Cancer patients.");
00424     }
00425     else if (strcmp(word, "neurologist") == 0)
00426     {
00427         strcpy(hint, "Doctor who treats nerve related disease.");
00428     }
00429     else if (strcmp(word, "dentist") == 0)
00430     {
00431         strcpy(hint, "Doctor who treats teeth disease.");
00432     }
00433     return hint;
00434 }
```

5.20 tictactoe.h File Reference

This file is related with coded of tictactoe game.

```
#include <stdio.h>
#include <stdlib.h>
#include <ctype.h>
#include <time.h>
#include <conio.h>
#include <string.h>
#include <windows.h>
```

Functions

- void resetBoard ()
  for resetting the board for new game
- void printBoard ()
  for printing the board every time the users input their move in multi player
- int checkFreeSpaces ()
  checking spaces if no space left and no one wins
- void player1Move ()
  player one move in multiPlayer
- void player2Move ()
  player 2 move in multi player
- void playerMove ()
  single player move against computer
- void computerMove ()
  Random move by the computer.
- char checkWinner ()
  checking if anyone won the game
- void printWinner (char winner)
  printing the winner
- void singlePlayer ()
  single user human and computer----------
- void multiPlayer ()
  playing 2 peron with math problems----------
- void winnerFrom2 (char humanWinner)
  winner from multi player
- int problem ()
  function creating random math problem
- void play ()
  play function----------
- void level ()
- void category ()
  to choose the category of the game----------
- void ticabout ()
  about functon----------
- void ticTitle ()
- int Tictactoe ()

Variables

- char board [3][3]
- const char PLAYER = 'X'
- const char COMPUTER = 'O'
- char PLAYER1
- char PLAYER2
- char player1Name [25]
- char player2Name [25]
- int chooseLevel
- int chooseCategory

5.20.1 Detailed Description

This file is related with coded of tictactoe game.

See also

Tictactoe()

5.20.2 Function Documentation

5.20.2.1 category()

```
void category ( )
```

to choose the category of the game----------

5.20.2.2 checkFreeSpaces()

```
int checkFreeSpaces ( )
```

checking spaces if no space left and no one wins

5.20.2.3 checkWinner()

```
char checkWinner ( )
```

checking if anyone won the game

check rows

check columns

check diagnols

5.20.2.4 computerMove()

```
void computerMove ( )
```

Random move by the computer.

creates a seed based on current time

5.20.2.5 level()

```
void level ( )
```

5.20.2.6 multiPlayer()

```
void multiPlayer ( )
```

playing 2 peron with math problems----------

Ask if player wants to give names----------

if no one is the winner and space is left then player one making move----------

if player 1 plays first----------

if the name is given by the players

if player 2 wants to play first

if the name is given by the players

5.20.2.7 play()

```
void play ( )
```

play function----------

5.20.2.8 player1Move()

```
void player1Move ( )
```

player one move in multiPlayer

5.20.2.9 player2Move()

```
void player2Move ( )
```

player 2 move in multi player

5.20.2.10 playerMove()

```
void playerMove ( )
```

single player move against computer

5.20.2.11 printBoard()

```
void printBoard ( )
```

for printing the board every time the users input their move in multi player

extra large board

5.20.2.12 printWinner()

```
void printWinner (
            char winner )
```

printing the winner

5.20.2.13 problem()

```
int problem ( )
```

function creating random math problem

Generate two random numbers between 1 and 10

medium level

hard level

easy level

Print the math problem

Read the user's answer

Check if the answer is correct for subtraction

Check if the answer is correct for multiplication

Check if the answer is correct for division

Note

only integer value is considered as answer

Check if the answer is correct for addition

5.20.2.14 resetBoard()

```
void resetBoard ( )
```

for resetting the board for new game

5.20.2.15 singlePlayer()

```
void singlePlayer ( )
```

single user human and computer----------

5.20.2.16 ticabout()

```
void ticabout ( )
```

about functon----------

5.20.2.17 Tictactoe()

```
int Tictactoe ( )
```

5.20.2.18 ticTitle()

```
void ticTitle ( )
```

5.20.2.19 winnerFrom2()

```
void winnerFrom2 (
            char humanWinner )
```

winner from multi player

5.20.3 Variable Documentation

5.20.3.1 board

```
char board[3][3]
```

5.20.3.2 chooseCategory

```
int chooseCategory
```

5.20.3.3 chooseLevel

```
int chooseLevel
```

5.20.3.4 COMPUTER

```
const char COMPUTER = 'O'
```

5.20.3.5 PLAYER

```
const char PLAYER = 'X'
```

5.20.3.6 PLAYER1

```
char PLAYER1
```

5.20.3.7 player1Name

```
char player1Name[25]
```

5.20.3.8 PLAYER2

```
char PLAYER2
```

5.20.3.9 player2Name

```
char player2Name[25]
```

5.21 tictactoe.h

Go to the documentation of this file.

```
00001 #include <stdio.h>
00002 #include <stdlib.h>
00003 #include <ctype.h>
00004 #include <time.h>
00005 #include <conio.h>
00006 #include <string.h>
00007 #include <windows.h>
00008
00009 char board[3][3];
00010 const char PLAYER = 'X';
00011 const char COMPUTER = 'O';
00012 char PLAYER1;
00013 char PLAYER2;
00014 char player1Name[25], player2Name[25];
00015 int chooseLevel, chooseCategory;
00016
00017 void resetBoard();
00018 void printBoard();
00019 int checkFreeSpaces();
00020 void player1Move();
00021 void player2Move();
00022 void playerMove();
00023 void computerMove();
00024 char checkWinner();
00025 void printWinner(char winner);
00026 void singlePlayer();
00027 void multiPlayer();
00028 void winnerFrom2(char humanWinner);
00029 int problem();
00030 void play();
00031 void level();
00032 void category();
00033 void ticabout();
00034 void ticTitle();
00035
00036 void ticTitle()
00037 {
00038     printf("\t\t ||||||||||||||  ||||  ||||||||||       ||||||||||||||  ||||||||||||  ||||||||||
      ||||||||||||| ||||||||||||  |||||||||\n");
00039     printf("\t\t      ||||       ||||  ||||                    ||||       ||||     ||||  ||||
      ||||      ||||    ||||  ||||     \n");
00040     printf("\t\t      ||||       ||||  ||||                    ||||       ||||     ||||  ||||
      ||||      ||||    ||||  ||||     \n");
00041     printf("\t\t      ||||       ||||  ||||      _____         ||||       ||||_____||||  ||||
      _____      ||||      ||||    ||||  |||||||||\n");
00042     printf("\t\t      ||||       ||||  ||||                    ||||       ||||||||||||  ||||
      ||||      ||||    ||||  ||||     \n");
00043     printf("\t\t      ||||       ||||  ||||                    ||||       ||||     ||||  ||||
      ||||      ||||    ||||  ||||     \n");
00044     printf("\t\t      ||||       ||||  ||||||||||            ||||       ||||     ||||  ||||||||||
      ||||      ||||||||||||  |||||||||\n");
00045 }
00046
00052 int Tictactoe()
00053 {
00054     system("cls");
00055     int choice;
00056     printf("\n\n");
00057     printf("\tTic-Tac-Toe The Mathematical Game.....");
00058     printf("\n\n");
00059     printf("\n\n");
00060     ticTitle();
00061     printf("\n\n");
00062     printf("\n\t\t\t---------------------------------------- TIC-TAC-TOE MENU
      ----------------------------------------------------");
00063     printf("\n\n");
00064     printf("\n\n");
00065     printf("\n\t\t\t  1.PLAY\n\t\t\t  2.ABOUT\n\t\t\t  3.QUIT\n");
00066     printf("\n\n\n\n\t\t\t\t\t\t\tEnter your choice, Mr.player: ");
00067     scanf("%d", &choice);
00068     fgetc(stdin);
00069
```

```
00070     switch (choice)
00071     {
00072     case 1:
00073         play();
00074         break;
00075
00076     case 2:
00077         ticabout();
00078         Tictactoe();
00079         break;
00080
00081     case 3:
00082         system("cls");
00083         menu();
00084         break;
00085
00086     default:
00087         printf("\n\n\n\n\n");
00088         printf("\t\t\t\t\t\t\t\t\t\t\t");
00089         printf("Invalid comand!");
00090         Sleep(1500);
00091         system("cls");
00092         Tictactoe();
00093     }
00094
00095     return 0;
00096 }
00097
00099
00100 void ticabout()
00101 {
00102     system("cls");
00103     printf("\n\n");
00104     printf("\tTic-Tac-Toe The Mathematical Game.....");
00105     printf("\n\n");
00106     printf("\n\n");
00107     printf("\n\n");
00108
00109     ticTitle();
00110     printf("\n\n");
00111     printf("\n\t\t\t---------------------------------------------- ABOUT SECTION
      ----------------------------------------------------");
00112     printf("\n\n");
00113     Sleep(1000);
00114     printf("\n\n");
00115     printf(" \t\t     About the game:::                              \n");
00116     printf("
      \t\t=============================================================================================================================
00117     printf(" \t\t|  -The goal of the game is for players to position their marks so that they make a
      continuous line of three cells vertically,      |\n");
00118     printf(" \t\t|   horizontally, or diagonally.
      |\n");
00119     printf(" \t\t|  -The player who succeeds in placing three of their marks in a horizontal,
      vertical, or diagonal row is the winner,               |\n");
00120     printf(" \t\t|  -TicTacToe can be played both single and multi Player, In single Player you play
      with Computer and in multi Player,              |\n");
00121     printf(" \t\t|   Player needs a partner to play,
      |\n");
00122     printf(" \t\t|  -In multi Player, the Player's have to solve mathematical problems to make a move,
      |\n");
00123     printf(" \t\t|  -For every wrong answer, If player answer is wrong then individual have to skip a
      particular problem move,                        |\n");
00124     printf("
      \t\t=============================================================================================================================
00125     printf("\n");
00126     printf("\n");
00127     Sleep(500);
00128     printf(" \t\t How to play:::\n");
00129     printf("
      \t\t=============================================================================\n");
00130     printf(" \t\t| -> Select to play with computer or human,
      |\n");
00131     printf(" \t\t| -> While playing with computer if player succeeds in placing three of their
      |\n");
00132     printf(" \t\t|    marks a horizontal, vertical, or diagonal row the players win,
      |\n");
00133     printf(" \t\t| -> While playing with human, Enter your names(Optional),
      |\n");
00134     printf(" \t\t| -> Choose category Addition,Subtraction or Multiplication,
      |\n");
00135     printf(" \t\t| -> Choose Level Easy, Medium or Hard,
      |\n");
00136     printf(" \t\t| -> Choose your sign i.e 'X' || 'O',
      |\n");
00137     printf(" \t\t| -> Solve the given problem to make your, if answer is wrong you would have to
      |\n");
00138     printf(" \t\t|    skip the move.
```

```
    |\n");
00139     printf(" \t\t| -> ENJOY PLAYING!
    |\n");
00140     printf("
    \t\t================================================================================\n");
00141     Sleep(500);
00142     printf("\n");
00143     printf("\n");
00144     printf(" \t\t Rules for the game:::                                \n");
00145     printf(" \t\t=====================================================================\n");
00146     printf(" \t\t|  <1> You cannot redo your move,                                   |\n");
00147     printf(" \t\t|  <2> While entring name only enter first name,                    |\n");
00148     printf(" \t\t|  <3> Under division category only enter your answer before decimal,|\n");
00149     printf(" \t\t|  <4> player can't make a move if they couldn't solve the problem,  |\n");
00150     printf(" \t\t|  <5> Player are not expected to quit the running game.             |\n");
00151     printf(" \t\t=====================================================================");
00152     printf("\n\n\n\t\t\t\t\t\t\t\t\tPress any key to continue......");
00153     getch();
00154     printf("\n\n");
00155 }
00156
00158 void play()
00159 {
00160     system("cls");
00161     printf("\n\n");
00162     printf("\tTic-Tac-Toe The Mathematical Game.....");
00163     int playChoice;
00164     printf("\n\n");
00165     printf("\n\n");
00166
00167     ticTitle();
00168     printf("\n\n");
00169     printf("\n\t\t\t    ------------------------------------------------ MODES
    ------------------------------------------------");
00170     printf("\n\n");
00171     printf("\n\n");
00172     printf("\n\t\t\t  1.COMPUTER\n\t\t\t  2.HUMAN\n\t\t\t  3.BACK\n");
00173     printf("\n\n\n\n\n\t\t\t\t\t\t\tWhom do you want to play with ... : ");
00174
00175     scanf("%d", &playChoice);
00176     fgetc(stdin);
00177
00178     switch (playChoice)
00179     {
00180     case 1:
00181         singlePlayer();
00182         break;
00183
00184     case 2:
00185         multiPlayer();
00186         break;
00187     case 3:
00188         Tictactoe();
00189         break;
00190
00191     default:
00192         printf("\n\n");
00193         printf("\t\t\t\t\t\t\t\t\t\t\t");
00194         printf("Invalid command!");
00195         Sleep(1000);
00196         system("cls");
00197         play();
00198     }
00199 }
00200
00201 void level()
00202 {
00203
00204     system("cls");
00205     printf("\n\n");
00206     printf("\tTic-Tac-Toe The Mathematical Game.....");
00207     printf("\n\n\n\n");
00208     printf("\t\t\t------------------------------------------- LEVELS
    ------------------------------------------------");
00209     printf("\n");
00210     printf("\n");
00211     printf("\n\n");
00212     printf("\t\t\t  1.Easy");
00213     printf("\n");
00214     printf("\t\t\t  2.Medium");
00215     printf("\n");
00216     printf("\t\t\t  3.Hard");
00217     printf("\n");
00218     printf("\t\t\t  4.Back");
00219     printf("\n");
00220     printf("\n\n");
00221     printf("\n\n\t\t\t\t\t  Enter your choice ... :");
```

```
00222     scanf("%d", &chooseLevel);
00223     fgetc(stdin);
00224
00225     switch (chooseLevel)
00226     {
00227     case 1:
00228         break;
00229
00230     case 2:
00231         break;
00232
00233     case 3:
00234         break;
00235
00236     case 4:
00237         category();
00238         break;
00239
00240     default:
00241         printf("\n\n");
00242         printf("\t\t\t\t\t\t\t\t\t\t\t\t");
00243         printf("Invalid command!");
00244         Sleep(1000);
00245         system("cls");
00246         level();
00247     }
00248 }
00249
00251 void category()
00252 {
00253     system("cls");
00254     printf("\n\n");
00255     printf("\tTic-Tac-Toe The Mathematical Game.....");
00256     printf("\n\n\n\n");
00257     printf("\t\t\t---------------------------------------------- CATAGORIES
    ------------------------------------------------------");
00258     printf("\n");
00259     printf("\n");
00260     printf("\t\t\t  1.Addition");
00261     printf("\n");
00262     printf("\t\t\t  2.Subtraction");
00263     printf("\n");
00264     printf("\t\t\t  3.Multiplication");
00265     printf("\n");
00266     printf("\t\t\t  4.Division");
00267     printf("\n");
00268     printf("\t\t\t  5.Back");
00269     printf("\n");
00270     printf("\n\n");
00271     printf("\n\n\t\t\t\t\t\t  Enter your choice ... :");
00272     scanf("%d", &chooseCategory);
00273     fgetc(stdin);
00274     switch (chooseCategory)
00275     {
00276     case 1:
00277
00278         level();
00279         break;
00280
00281     case 2:
00282         level();
00283         break;
00284
00285     case 3:
00286         level();
00287         break;
00288
00289     case 4:
00290         level();
00291         break;
00292
00293     case 5:
00294         play();
00295         break;
00296
00297     default:
00298         printf("\n\n");
00299         printf("\t\t\t\t\t\t\t\t\t\t\t\t");
00300         printf("Invalid command!");
00301         Sleep(1000);
00302         system("cls");
00303         category();
00304     }
00305 }
00306
00308 void singlePlayer()
00309 {
```

```
00310     char winner = ' ';
00311     char response;
00312     do
00313     {
00314         if (response == 'Y')
00315         {
00316             system("cls");
00317             singlePlayer();
00318         }
00319         winner = ' ';
00320         response = ' ';
00321         resetBoard();
00322 
00323         while (winner == ' ' && checkFreeSpaces() != 0)
00324         {
00325             system("cls");
00326             printBoard();
00327 
00328             playerMove();
00329             winner = checkWinner();
00330             if (winner != ' ' || checkFreeSpaces() == 0)
00331             {
00332                 break;
00333             }
00334 
00335             computerMove();
00336             winner = checkWinner();
00337             if (winner != ' ' || checkFreeSpaces() == 0)
00338             {
00339                 break;
00340             }
00341         }
00342         system("cls");
00343 
00344         printBoard();
00345         printWinner(winner);
00346         printf("\n\n\n");
00347         printf("\t\t\t\t\t\t\t     Would you like to play again? (Y/N):");
00348         scanf(" %c", &response);
00349         response = toupper(response);
00350 
00351     } while (response == 'Y');
00352     play();
00353 }
00354 
00356 void multiPlayer()
00357 {
00358     char enterNames;
00359     int xo;
00360     system("cls");
00361     printf("\n\n");
00362     printf("\tTic-Tac-Toe The Mathematical Game.....");
00363     printf("\n\n\n\n");
00364     printf("\t\t\t-----------------------------------------------ENJOY THE GAME WITH
    FRIENDS-----------------------------------------------------------");
00365     printf("\n\n\n\n");
00366 
00368     printf("\n");
00369     printf("\n\t\t\t\tDo you want to enter the names of player (y/n) ?");
00370     scanf(" %c", &enterNames);
00371     enterNames = toupper(enterNames);
00372 
00373     if (enterNames == 'Y')
00374     {
00375 
00376         system("cls");
00377         printf("\n\n");
00378         printf("\tTic-Tac-Toe The Mathematical Game.....");
00379         printf("\n\n\n\n");
00380         printf("\t\t\t---------------------------------------------- AUTHENTICATION
    ------------------------------------------------------------");
00381 
00382         printf("\n");
00383         printf("\n");
00384         printf(" \t\t\t NOTE:                                    \n");
00385         printf("
    \t\t\t\t=============================================================================================================\n");
00386         printf(" \t\t\t\t|  <1> Only First name is taken,
    |\n");
00387         printf(" \t\t\t\t|  <2> If space is given while entering the names,it will be considered two
    different names,|\n");
00388         printf(" \t\t\t\t|  <3> Player can't make a move if they couldn't solve the problem,
    |\n");
00389         printf(" \t\t\t\t|  <4> Player are not expected to quit the running game.
    |\n");
00390         printf("
    \t\t\t\t=============================================================================================================");
```

```
00391         printf("\n\n\n\n");
00392         printf("\n\t\t\t\tPlayers Naming Time,");
00393         printf("\n\n");
00394         printf("\n\t\t\t\t    Enter Player 1 Name : ");
00395         scanf("%s", player1Name);
00396         printf("\n");
00397         printf("\n\t\t\t\t    Enter Player 2 Name : ");
00398         scanf("%s", player2Name);
00399     }
00400     else
00401     {
00402         strcpy(player1Name, "Player-1");
00403         strcpy(player2Name, "Player-2");
00404     }
00405 
00406     category();
00407 
00408 chooseMove:
00409 restoringName:
00410 renamePlayer:
00411     system("cls");
00412     printf("\n\n");
00413     printf("\tTic-Tac-Toe The Mathematical Game.....");
00414     printf("\n\n\n\n");
00415     printf("\t\t\t---------------------------------------------- DECISION MAKING
    ----------------------------------------------------------");
00416     printf("\n");
00417     printf("\n");
00418     printf("\n\t\tWho will make a movie first,");
00419     printf("\n\n");
00420     printf("\n\t\t\t   1.%s", player1Name);
00421     printf("\n\t\t\t   2.%s", player2Name);
00422     printf("\n\t\t\t   3.Back");
00423     printf("\n\n");
00424     printf("\n\n\t\t\t  Enter your choice ... :");
00425     scanf("%d", &xo);
00426     fgetc(stdin);
00427 
00428     if (xo == 1)
00429     {
00430 
00431         while (PLAYER1 != 'X' || PLAYER1 != 'O')
00432         {
00433         a:
00434             printf("\n\n");
00435             printf("\n\t\t\t  %s choose 'x' or 'o' .. :", player1Name);
00436             scanf(" %c", &PLAYER1);
00437             PLAYER1 = toupper(PLAYER1);
00438             if (PLAYER1 == 'X')
00439             {
00440                 PLAYER2 = 'O';
00441                 break;
00442             }
00443             else if (PLAYER1 == 'O')
00444             {
00445                 PLAYER2 = 'X';
00446                 break;
00447             }
00448             else
00449             {
00450                 printf("\n");
00451                 printf("\t\t\t\t\t   Not an default sign!");
00452                 goto a;
00453             }
00454         }
00455     }
00456 
00457     else if (xo == 2)
00458     {
00459         do
00460         {
00461         b:
00462             printf("\n\n");
00463             printf("\n\t\t\t  %s choose 'x' or 'o' .. :", player2Name);
00464             scanf(" %c", &PLAYER2);
00465             PLAYER2 = toupper(PLAYER2);
00466             if (PLAYER2 == 'X')
00467             {
00468                 PLAYER1 = 'O';
00469                 break;
00470             }
00471             else if (PLAYER2 == 'O')
00472             {
00473                 PLAYER1 = 'X';
00474                 break;
00475             }
00476             else
```

```
00477             {
00478                 printf("\n");
00479                 printf("\t\t\t\t\t\t   Not an default sign!");
00480                 goto b;
00481             }
00482 
00483         } while (PLAYER2 != 'O' || PLAYER2 != 'X');
00484     }
00485     else if (xo == 3)
00486     {
00487         play();
00488     }
00489     else
00490     {
00491         printf("\n\n");
00492         printf("\t\t\t\t\t\t   Invalid input!");
00493         printf("\n");
00494         printf("\t\t\t\t\t\t   Choose 1 || 2");
00495         printf("\n\n");
00496         Sleep(2000);
00497         goto chooseMove;
00498     }
00499 
00500     char humanWinner = ' ';
00501     char response = ' ';
00502     int game = 0;
00503     do
00504     {
00505         if (response == 'Y')
00506         {
00507             char restoreName;
00508             system("cls");
00509             printf("\n\n");
00510             printf("\tTic-Tac-Toe The Mathematical Game.....");
00511             printf("\n\n\n\n");
00512             printf("\t\t\t---------------------------------------------- DECISION MAKING
    ------------------------------------------------------");
00513             printf("\n\n");
00514             printf("\n\t\t\t  Who is playing?");
00515             printf("\n\n");
00516             printf("\t\t\t\t");
00517             printf("  %s and %s (y/n) ?", player1Name, player2Name);
00518             scanf(" %c", &restoreName);
00519 
00520             restoreName = toupper(restoreName);
00521             if (restoreName == 'Y')
00522             {
00523 
00524                 goto restoringName;
00525             }
00526             else
00527             {
00528                 system("cls");
00529                 printf("\n\n");
00530                 printf("\tTic-Tac-Toe The Mathematical Game.....");
00531                 printf("\n\n\n\n");
00532                 printf("\t\t\t---------------------------------------------- RENAMING
    ------------------------------------------------------");
00533 
00534                 printf("\n\n\n\n");
00535                 printf("\n\t\t\t Rename '%s' :", player1Name);
00536                 scanf("%s", player1Name);
00537                 printf("\n\n");
00538                 printf("\n\t\t\t Rename '%s' :", player2Name);
00539                 scanf("%s", player2Name);
00540                 goto renamePlayer;
00541             }
00542         }
00543         humanWinner = ' ';
00544         response = ' ';
00545         resetBoard();
00546 
00548 
00550         if (xo == 1)
00551         {
00552 
00553             while (humanWinner == ' ' && checkFreeSpaces() != 0)
00554             {
00555                 system("cls");
00556                 printBoard();
00557 
00559 
00560                 printf("\t\t\t\t   Problem for '%c' (%s),", PLAYER1, player1Name);
00561                 printf("\n");
00562                 if (problem() == 1)
00563                 {
00564                     system("cls");
```

```
00565                   printBoard();
00566                   printf("\t\t\t\t   '%s' '%c' can now make a move:", player1Name, PLAYER1);
00567                   printf("\n");
00568                   player1Move();
00569                   humanWinner = checkWinner();
00570                   if (humanWinner != ' ' || checkFreeSpaces() == 0)
00571                   {
00572                       break;
00573                   }
00574               }
00575               else
00576               {
00577                   system("cls");
00578                   printf("\n\n\n\n\n\n\n\n\n");
00579                   printf("\n\n\n\n\n\n\n\n\n");
00580                   printf("\t\t\t\t\t\t\t");
00581                   printf("Sorry! (%s) your answer is wrong you have to skip a '%c' move",
    player1Name, PLAYER1);
00582                   printf("\n\n");
00583                   printf("\t\t\t\t\t\t\t\t\t");
00584                   printf("Enter any key to continue ... ");
00585                   getch();
00586               }
00587
00588               system("cls");
00589               printBoard();
00590               printf("\n\n");
00591               printf("\t\t\t\t   Problem for '%c' (%s),", PLAYER2, player2Name);
00592               printf("\n");
00593               if (problem() == 1)
00594               {
00595                   system("cls");
00596                   printBoard();
00597                   printf("\t\t\t\t   '%s' '%c' can now make a move:", player2Name, PLAYER2);
00598                   printf("\n");
00599                   player2Move();
00600                   humanWinner = checkWinner();
00601                   if (humanWinner != ' ' || checkFreeSpaces() == 0)
00602                   {
00603                       break;
00604                   }
00605               }
00606               else
00607               {
00608                   system("cls");
00609                   printf("\n\n\n\n\n\n\n\n\n");
00610                   printf("\n\n\n\n\n\n\n\n\n");
00611                   printf("\t\t\t\t\t\t\t");
00612                   printf("Sorry! (%s) your answer is wrong you have to skip a '%c' move",
    player1Name, PLAYER1);
00613                   printf("\n\n");
00614                   printf("\t\t\t\t\t\t\t\t\t");
00615                   printf("Enter any key to continue ... ");
00616                   getch();
00617               }
00618           }
00619       }
00620
00622       else
00623       {
00624
00625           while (humanWinner == ' ' && checkFreeSpaces() != 0)
00626           {
00627               system("cls");
00628               printBoard();
00629
00631
00632               system("cls");
00633               printBoard();
00634               printf("\n\n");
00635               printf("\t\t\t\t   Problem for '%c' (%s),", PLAYER2, player2Name);
00636               printf("\n");
00637               if (problem() == 1)
00638               {
00639                   system("cls");
00640                   printBoard();
00641                   printf("\t\t\t\t   '%s' '%c' can now make a move:", player2Name, PLAYER2);
00642                   printf("\n");
00643                   player2Move();
00644                   humanWinner = checkWinner();
00645                   if (humanWinner != ' ' || checkFreeSpaces() == 0)
00646                   {
00647                       break;
00648                   }
00649               }
00650               else
00651               {
```

```
00652                     system("cls");
00653                     printf("\n\n\n\n\n\n\n\n\n\n");
00654                     printf("\n\n\n\n\n\n\n\n\n\n");
00655                     printf("\t\t\t\t\t\t\t");
00656                     printf("Sorry! (%s) your answer is wrong you have to skip a '%c' move",
      player2Name, PLAYER2);
00657                     printf("\n\n");
00658                     printf("\t\t\t\t\t\t\t\t\t\t");
00659                     printf("Enter any key to continue ...  ");
00660                     getch();
00661                 }
00662 
00663                 printf("\n\n");
00664                 printf("\t\t\t\t   Problem for '%c' (%s):", PLAYER1, player1Name);
00665                 printf("\n");
00666                 if (problem() == 1)
00667                 {
00668                     system("cls");
00669                     printBoard();
00670                     printf("\t\t\t\t   '%s' '%c' can now make a move:", player1Name, PLAYER1);
00671                     printf("\n");
00672                     player1Move();
00673                     humanWinner = checkWinner();
00674                     if (humanWinner != ' ' || checkFreeSpaces() == 0)
00675                     {
00676                         break;
00677                     }
00678                 }
00679                 else
00680                 {
00681                     system("cls");
00682                     printf("\n\n\n\n\n\n\n\n\n\n");
00683                     printf("\n\n\n\n\n\n\n\n\n\n");
00684                     printf("\t\t\t\t\t\t\t");
00685                     printf("Sorry! (%s) your answer is wrong you have to skip a '%c' move",
      player1Name, PLAYER1);
00686                     printf("\n\n");
00687                     printf("\t\t\t\t\t\t\t\t\t\t");
00688                     printf("Enter any key to continue ... ");
00689                     getch();
00690                 }
00691             }
00692         }
00693 
00694         system("cls");
00695         printBoard();
00696         winnerFrom2(humanWinner);
00697         printf("\n\n\n");
00698         printf("\t\t\t\t\t\t\t     Would you like to play again? (Y/N):");
00699         scanf(" %c", &response);
00700         response = toupper(response);
00701         game++;
00702     } while (response == 'Y');
00703     play();
00704 }
00705 
00707 void playerMove()
00708 {
00709 
00710     int x, y;
00711 
00712     do
00713     {
00714         printf("\t\t\t\t    Enter row number #(1-3) : ");
00715         scanf("%d", &x);
00716         x--;
00717         printf("\t\t\t\t    Enter column number #(1-3) : ");
00718         scanf("%d", &y);
00719         y--;
00720 
00721         if (board[x][y] != ' ')
00722         {
00723             printf("\n\n");
00724             printf("\t\t\t\t\t\t\t\t         Invalid move!");
00725             printf("\n\n");
00726         }
00727 
00728         else
00729         {
00730             board[x][y] = PLAYER;
00731             break;
00732         }
00733 
00734     } while (board[x][y] != ' ');
00735 };
00736 
00738 void player1Move()
```

```
00739 {
00740
00741     int x, y;
00742
00743     do
00744     {
00745         printf("\t\t\t\t    Enter row number #(1-3) for '%c' (%s):", PLAYER1, player1Name);
00746         scanf("%d", &x);
00747         x--;
00748
00749         printf("\t\t\t\t    Enter column number #(1-3) for '%c' (%s):", PLAYER1, player1Name);
00750         scanf("%d", &y);
00751         y--;
00752
00753         if (board[x][y] != ' ')
00754         {
00755
00756             printf("\n\n");
00757             printf("\t\t\t\t\t\t\t\t\t         Invalid move!");
00758             printf("\n\n");
00759         }
00760
00761         else
00762         {
00763             board[x][y] = PLAYER1;
00764             break;
00765         }
00766
00767     } while (board[x][y] != ' ');
00768 };
00769
00771 void player2Move()
00772 {
00773
00774     int x, y;
00775
00776     do
00777     {
00778         printf("\t\t\t\t    Enter row number #(1-3) for '%c' (%s):", PLAYER2, player2Name);
00779         scanf("%d", &x);
00780         x--;
00781
00782         printf("\t\t\t\t    Enter column number #(1-3) for '%c'(%s):", PLAYER2, player2Name);
00783         scanf("%d", &y);
00784         y--;
00785
00786         if (board[x][y] != ' ')
00787         {
00788
00789             printf("\n\n");
00790             printf("\t\t\t\t\t\t\t\t\t         Invalid move!");
00791             printf("\n\n");
00792         }
00793         else
00794         {
00795             board[x][y] = PLAYER2;
00796             break;
00797         }
00798
00799     } while (board[x][y] != ' ');
00800 }
00801
00803 void printBoard()
00804 {
00805
00806     printf("\n\n");
00807     printf("\tTic-Tac-Toe The Mathematical Game.....");
00808     printf("\n\n");
00809     printf("\n\t\t\t---------------------------------------- CAN YOU BEAT THE OPPONENT
    ------------------------------------------------");
00810
00812     printf("\n\n\n\n\n\n\n");
00813     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00814     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00815     printf("\t\t\t\t\t\t\t\t\t    %c    |    %c    |    %c    \n", board[0][0], board[0][1],
    board[0][2]);
00816     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00817     printf("\t\t\t\t\t\t\t\t\t_________|_________|_________\n");
00818     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00819     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00820     printf("\t\t\t\t\t\t\t\t\t    %c    |    %c    |    %c    \n", board[1][0], board[1][1],
    board[1][2]);
00821     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00822     printf("\t\t\t\t\t\t\t\t\t_________|_________|_________\n");
00823     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00824     printf("\t\t\t\t\t\t\t\t\t         |         |         \n");
00825     printf("\t\t\t\t\t\t\t\t\t    %c    |    %c    |    %c   \n", board[2][0], board[2][1],
```

```
      board[2][2]);
00826     printf("\t\t\t\t\t\t\t\t          |          |          \n");
00827     printf("\t\t\t\t\t\t\t\t          |          |          \n");
00828     printf("\n\n\n");
00829 };
00830
00832 void resetBoard()
00833 {
00834     int i, j;
00835     for (i = 0; i < 3; i++)
00836     {
00837         for (j = 0; j < 3; j++)
00838         {
00839             board[i][j] = ' ';
00840         }
00841     }
00842 };
00843
00845 int checkFreeSpaces()
00846 {
00847     int freeSpaces = 9, i, j;
00848     for (i = 0; i < 3; i++)
00849     {
00850         for (j = 0; j < 3; j++)
00851         {
00852             if (board[i][j] != ' ')
00853             {
00854                 freeSpaces--;
00855             }
00856         }
00857     }
00858     return freeSpaces;
00859 };
00860
00862 char checkWinner()
00863 {
00864     int i;
00865
00867     for (i = 0; i < 3; i++)
00868     {
00869         if (board[i][0] == board[i][1] && board[i][0] == board[i][2])
00870         {
00871
00872             return board[i][0];
00873         }
00874     }
00875
00877     for (i = 0; i < 3; i++)
00878     {
00879         if (board[0][i] == board[1][i] && board[0][i] == board[2][i])
00880         {
00881
00882             return board[0][i];
00883         }
00884     }
00885
00887
00888     if (board[0][0] == board[1][1] && board[0][0] == board[2][2])
00889     {
00890
00891         return board[0][0];
00892     }
00893
00894     if (board[0][2] == board[1][1] && board[0][2] == board[2][0])
00895     {
00896
00897         return board[0][2];
00898     }
00899
00900     return ' ';
00901 };
00902
00904 void computerMove()
00905 {
00906
00908
00909     srand(time(0));
00910     int x, y;
00911     if (checkFreeSpaces() > 0)
00912     {
00913         do
00914         {
00915             x = rand() % 3;
00916             y = rand() % 3;
00917         } while (board[x][y] != ' ');
00918
00919         board[x][y] = COMPUTER;
```

```
00920     }
00921     else
00922     {
00923         printWinner(' ');
00924     }
00925 };
00926
00928 void printWinner(char winner)
00929 {
00930     if (winner == PLAYER)
00931     {
00932         printf("\n\n");
00933         printf("\t\t\t\t\t\t\t\t  _______ YOU WON! _______");
00934     }
00935     else if (winner == COMPUTER)
00936     {
00937         printf("\n\n");
00938         printf("\t\t\t\t\t\t\t\t  _______ YOU LOOSE! _______");
00939     }
00940
00941     else
00942     {
00943         printf("\n\n");
00944         printf("\t\t\t\t\t\t\t\t  _______ ITS A TIE! _______");
00945     }
00946 }
00947
00949 void winnerFrom2(char humanWinner)
00950 {
00951
00952     if (humanWinner == PLAYER1)
00953     {
00954         printf("\n\n");
00955         printf("\t\t\t\t\t\t\t\t  _______%s YOU WON! _______", player1Name);
00956     }
00957     else if (humanWinner == PLAYER2)
00958     {
00959         printf("\n\n");
00960         printf("\t\t\t\t\t\t\t\t  _______%s YOU WON! _______", player2Name);
00961     }
00962     else
00963     {
00964
00965         printf("\n\n");
00966         printf("\t\t\t\t\t\t\t\t  _______ ITS A TIE! _______");
00967     }
00968 }
00969
00971
00972 int problem()
00973 {
00974     int a, b, answer;
00975
00977
00979     if (chooseLevel == 2)
00980     {
00981         srand(time(NULL));
00982         a = rand() % 10 + 5;
00983         b = rand() % 10 + 5;
00984     }
00986     else if (chooseLevel == 3)
00987     {
00988         srand(time(NULL));
00989         a = rand() % 15 + 10;
00990         b = rand() % 15 + 10;
00991     }
00993     else
00994     {
00995         srand(time(NULL));
00996         a = rand() % 4 + 1;
00997         b = rand() % 4 + 1;
00998     }
00999
01001
01002     if (chooseCategory == 2)
01003     {
01004         printf("\n");
01005         printf("\t\t\t\t   What is the result of %d - %d ? ", a, b);
01006     }
01007     else if (chooseCategory == 3)
01008     {
01009         printf("\n");
01010         printf("\t\t\t\t   What is the result of %d * %d ? ", a, b);
01011     }
01012     else if (chooseCategory == 4)
01013     {
01014         printf("\n");
```

```
01015         printf("\t\t\t\t   What is the result of %d / %d ? ", a, b);
01016     }
01017     else
01018     {
01019         printf("\n");
01020         printf("\t\t\t\t   What is the result of %d + %d ? ", a, b);
01021     }
01022 
01024     scanf("%d", &answer);
01025 
01027 
01028     if (chooseCategory == 2)
01029     {
01030         if (answer == a - b)
01031         {
01032             return 1;
01033         }
01034         else
01035         {
01036             return 0;
01037         }
01038     }
01039     else if (chooseCategory == 3)
01040     {
01042         if (answer == a * b)
01043         {
01044             return 1;
01045         }
01046         else
01047         {
01048             return 0;
01049         }
01050     }
01051     else if (chooseCategory == 4)
01052     {
01055         if (answer == a / b)
01056         {
01057             return 1;
01058         }
01059         else
01060         {
01061             return 0;
01062         }
01063     }
01064     else
01065     {
01067         if (answer == a + b)
01068         {
01069             return 1;
01070         }
01071         else
01072         {
01073             return 0;
01074         }
01075     }
01076 }
```