Game Project Source Code:

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

// NAMES:                  SECTION: BSIS-1AB
/* BALATERO, JAY-ANN ANGELA
   ENRIQUEZ, SIGNET
   RECAÑA, ANGEL CYRHEN */


void delay(unsigned int mseconds)

{
    clock_t goal = mseconds + clock();
    while(goal > clock());
}



void show_glossary ();
void help ();
void end ();



int main()//Start of main function.
{
    int arr;
    system("cls");
    system("color F4");
    printf("\n\n\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t GAME LOADING ");

    for(arr=1; arr<=3; arr++)
    {
        printf("..");
        delay(500);
    }
```

```
system ("cls");
int choice;
system("color F4");
system("cls");
printf("\n\n");
printf("\n\t\t\t\t\t==================================");
printf("\n\t\t\t\t\t           HULAHOOPS          ");
printf("\n\t\t\t\t\t==================================");
printf("\n\n\t\t\t\t\t  > Press I: INSTRUCTION  ");
printf("\n\n\t\t\t\t\t  > Press S: START THE GAME");
printf("\n\n\t\t\t\t\t  > Press G: GLOSSARY  ");
printf("\n\n\t\t\t\t\t  > Press A: ABOUT");
printf("\n\n\t\t\t\t\t  > Press E: EXIT");
printf("\n\n\t\t\t\t\t  ENTER HERE: ");

choice=toupper(getch());
if (choice=='G')
       {
   show_glossary();
       }
else if (choice=='I')
{
   instruction();
}
else if (choice=='A')
{
   about();
}
else if (choice=='E')
{
   end ();
}
else if(choice=='S')
{
   system ("cls");
   srand (time(NULL));
   char words [][16] =  // words to guess
   {
      "asteroid","astronaut","astronomy", "comet", "earth", "galaxy", "gravity","jupiter",
      "mars", "mercury", "meteor", "moon", "neptune", "orbit", "planet", "pluto",
      "saturn", "shuttle","star", "sun", "telescope", "universe", "uranus", "venus",
   };
   //index for random number
   int count = rand () %25; //random word
```

```
int low = strlen(words[count]); //low = length of word
int guessed[10] = {0,0,0,0,0,0,0,0,0,0}; //guessed letter

int temp_correct = 0;
int l_correct = 0; //number of correct guessed letter
int loop = 0; //loop index
int quit = 0;
int chance = 5; //number of lives

char guess[16];
char input; //letter entered
int user_choice;

printf("\n\t\t\t\t\tHINT: %d characters\n", low);

// for checking
//printf (" words: %s\n count: %d\n low: %d\n", words[count],count,low);

printf("\n\n");
printf("\n\t\t\t\t\t==================================");
printf("\n\t\t\t\t\t              GAME              ");
printf("\n\t\t\t\t\t==================================");




while (l_correct < low)
{
   printf("\n\t\t\t\t\t_____________________________________");
   printf("\n\n\t\t\t\t\tNumber of Correct: %d\n",l_correct);
   printf("\n\t\t\t\t\tMystery Word: ");
   for (loop =0; loop < low; loop++)
   {
      if(guessed[loop]== 1)
      {
         printf("%c",words[count][loop]);
      }
      else
      {
         printf("-");
      }
   }
   printf("\n\n\t\t\t\t\tGUESS A LETTER: ");
   fgets (guess, 16,stdin);
```

```
    if(strncmp(guess,"quit", 4)== 0)
    {
        quit =1;
        break;
    }
    input = guess[0];
    temp_correct= l_correct;

    for (loop =0; loop < low; loop++)
    {
        if(guessed[loop]== 1)
        {
            continue;
        }
        if(input == words[count][loop])
        {
            guessed[loop]=1;
            l_correct++;
        }
    }

    if (temp_correct == l_correct)
    {
        chance--;
        printf("\n\t\t\t\t\tOOPS! wrong guess");
        if (chance == 0)
        {
            break;
        }

    }
    else
    {
        printf("\n\t\t\t\t\tHOORAY! correct\n");
    }

}// while loop

if (quit  == 1)
{
    printf("\n\t\t\t\t_____________________________________________");
    printf("\n\n\t\t\t\t       YOU QUIT EARLY :( \n ");
    printf("\n\t\t\t\t       [1] PLAY AGAIN");
```

```
    printf("\n\t\t\t\t       [2] EXIT");
    printf("\n\t\t\t\t       ENTER HERE: ");
    scanf("%d",&user_choice);
    getchar(); // to clear input buffer

   switch (user_choice)
   {
       case 1: main(); break;
       case 2: exit(1); break;
   }
}
else if (chance == 0)
{
    system ("cls");
    printf ("\n\n\n\n\n\n\t\t\t\t\t====== YOU LOSE! ====== \n");
    printf("\n\n\t\t\t\t\tThe Word: %s\n",words[count]);

    printf ("\n\t\t\t\t\t[1] PLAY AGAIN");
    printf ("\n\t\t\t\t\t[2] LEARN THE WORD");
    printf ("\n\t\t\t\t\t[3] EXIT");
    printf ("\n\t\t\t\t\tENTER HERE: ");
    scanf("%d",&user_choice);
    getchar();

    switch (user_choice)
    {
       case 1: main(); break;
       case 2: show_glossary(); break;
       case 3: exit(1);break;
    }
}
else
{
    system ("cls");
    printf ("\n\n\n\n\n\n\t\t\t\t\t====== WINNER! ====== \n");
    printf("\n\n\t\t\t\t\tThe Word: %s\n",words[count]);

    printf ("\n\t\t\t\t\t[1] PLAY AGAIN");
    printf ("\n\t\t\t\t\t[2] LEARN THE WORD");
    printf ("\n\t\t\t\t\t[3] EXIT");
    printf ("\n\t\t\t\t\tENTER HERE: ");
    scanf("%d",&user_choice);
    getchar();
```

```
            switch (user_choice)
            {
                case 1: main(); break;
                case 2: show_glossary(); break;
                case 3: exit(1);; break;
            }
        }
    }getch ();
}

void instruction()
{

    system("cls");
    printf("\n\n");
    printf("\n\t\t\t\t\t==================================");
    printf("\n\t\t\t\t\t          INSTRUCTION");
    printf("\n\t\t\t\t\t==================================\n");
    printf("\n\n\t\t\t - THE PLAYER WILL GUESS THE WORD BY ENTERING LETTERS ONE AT
A TIME.");
    printf("\n\t\t\t - THE CHARACTERS THAT THE PLAYER WILL INPUT SHOULD BE IN
LOWER CASE.");
    printf("\n\t\t\t - THE PLAYER WILL LOSE IF THE 5 CHANCES GIVEN WERE
ACCUMULATED.");
    printf("\n\t\t\t - THE PLAYER CAN EXIT THE GAME AT ANY TIME BY ENTERING 'quit'.\n");

    int uchose;
    printf("\n\n\t\t\t\t\t\t   [1] - MENU");
    printf("\n\t\t\t\t\t\t   [2] - EXIT");
    printf("\n\n\t\t\t\t\t\t   ENTER HERE: ");
    scanf ("%d",&uchose);
    getchar();

    switch (uchose)
    {
        case 1: main(); break;
        case 2: exit(1);
    }


}
void about()
{
    system ("cls");
```

```
    printf("\n\n");
    printf("\n\t\t\t\t\t==================================");
    printf("\n\t\t\t\t\t             ABOUT");
    printf("\n\t\t\t\t\t==================================\n");

    printf("\n\n\t\t\t - HULAHOOPS is an educational game that is intended for kids.");
    printf("\n\t\t\t - The content of this game is all about basic words; the category is science
(space).");
    printf("\n\t\t\t - This game also aims to enhance the user's spelling and memory skills.");
    printf("\n\t\t\t - A glossary is included in this game so that the player may understand\n");
    printf("\t\t\t   the meaning of the word that appeared in the game. \n");

    int uchose;
    printf("\n\n\t\t\t\t\t\t   [1] - MENU");
    printf("\n\t\t\t\t\t\t   [2] - EXIT");
    printf("\n\n\t\t\t\t\t\t   ENTER HERE: ");
    scanf ("%d",&uchose);
    getchar();

    switch (uchose)
    {
       case 1: main(); break;
       case 2: exit(1);
    }
}

void end()
{
    system ("cls");
    int uchose;
    printf("\n\n");
    printf("\n\t\t\t\t\t==================================");
    printf("\n\t\t\t\t\t   DO YOU REALLY WANT TO EXIT?");
    printf("\n\t\t\t\t\t==================================\n");

    printf("\n\n\t\t\t\t\t   [1] - YES");
    printf("\n\t\t\t\t\t   [2] - NO, GO BACK TO MENU");
    printf("\n\n\t\t\t\t\t   ENTER HERE: ");
    scanf ("%d",&uchose);
    getchar();

    switch (uchose)
    {
       case 1: exit(1); break;
```

```
        case 2: main(); break;
    }
}


void show_glossary()
{
    system ("cls");
    printf("\n\n");
    printf("\n\t\t\t\t\t==================================");
    printf("\n\t\t\t\t\t          GLOSSARY");
    printf("\n\t\t\t\t\t==================================");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    ASTEROID - is a minor planet of the inner Solar System.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    ASTRONAUT - is a person trained, equipped, and deployed\n");
    printf("\t\t\t        by a human spaceflight program.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    ASTRONOMY - is a natural science that studies celestial\n");
    printf("\t\t\t        objects and phenomena.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    COMET - are frozen leftovers from the formation of the\n");
    printf("\t\t\t      solar system composed of dust, rock, and ices.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    EARTH - is the third planet from the Sun, and the only\n");
    printf("\t\t\t      place we know so far that's inhabited by the living.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    GALAXY - a vast collection of gas, dust, and billions\n");
    printf("\t\t\t      of starts and their solar systems.\n");
    printf("\t\t\t    ____________________________________________________________");

    printf("\n\n\t\t\t    ____________________________________________________________");
    printf("\n\n\t\t\t    GRAVITY - is a natural phenomenon by which all things\n");
```

```
printf("\t\t\t        with mass or energy are attracted to one another.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    JUPITER - is the fifth planet from the Sun and the \n");
printf("\t\t\t        largest in the Solar System.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    MARS - is the fourth planet from the Sun and the \n");
printf("\t\t\t     second-smallest planet in the Solar System.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    MERCURY - is the smallest planet in the Solar System \n");
printf("\t\t\t        and the closest to the Sun.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    METEOR - are objects in space that range in size from \n");
printf("\t\t\t       dust grains to small asteroids.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    MOON - is Earth's only natural satellite and the fifth\n");
printf("\t\t\t     largest moon in the Solar System.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    NEPTUNE - is the eighth and farthest-known Solar planet\n");
printf("\t\t\t        from the Sun.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    ORBIT - is a regular, repeating path that one object in\n");
printf("\t\t\t      space takes around another one.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
printf("\n\n\t\t\t    PLANET - is a large object such as Venus or Earth that\n");
printf("\t\t\t       orbits a star.\n");
printf("\t\t\t    ____________________________________________________________");

printf("\n\n\t\t\t    ____________________________________________________________");
```

```
printf("\n\n\t\t\t      PLUTO - is a dwarf planet that lies in Kuiper Belt, an\n");
printf("\t\t\t        area full of icy bodies and dwarf planets.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      SATURN - the sixth planet from the Sun and the second-\n");
printf("\t\t\t     largest planet in the Solar System, after Jupiter.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      SHUTTLE - a partially reusable rocket-launched vehicle\n");
printf("\t\t\t    designed to go into orbit around Earth for transport.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      STAR - is a luminous ball of gas, mostly hydrogen and\n");
printf("\t\t\t       helium, held together by its own gravity.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      SUN - is the only star at the center of our Solar\n");
printf("\t\t\t      System. It is a nearly perfect ball of hot plasma\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      TELESCOPE - an optical instrument using a combination\n");
printf("\t\t\t    of lenses and curved mirrors to observe distant objects.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      UNIVERSE - is the whole cosmic system of matter and \n");
printf("\t\t\t     energy of which, Earth, and the human race, is a part.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      URANUS - is the seventh planet from the Sun, and has the\n");
printf("\t\t\t        third-largest diameter in our Solar System.\n");
printf("\t\t\t      ____________________________________________________________");

printf("\n\n\t\t\t      ____________________________________________________________");
printf("\n\n\t\t\t      VENUS - is the second planet from the Sun and Earth's\n");
printf("\t\t\t        closest planetary neighbor.\n");
printf("\t\t\t      ____________________________________________________________\n");
```

```
    int uchose;
    printf("\n\n\t\t\t\t\t\t   [1] - MENU");
    printf("\n\t\t\t\t\t\t   [2] - EXIT");
    printf("\n\n\t\t\t\t\t\t   ENTER HERE: ");
    scanf ("%d",&uchose);
    getchar();

    switch (uchose)
    {
       case 1: main(); break;
       case 2: exit(1);
    }
}
```