

```

#include <iostream>
#include <cstdlib>
#include <ctime>
#include <conio.h>
#include <windows.h>
#include <string>
#pragma comment(lib, "winmm.lib")
#include <graphics.h>
#include <string.h>
#include <mmsystem.h>
#pragma comment(lib, "winmm.lib")
int userRoll_1, Roll_2, Roll_3;
int playerRoll_2, R_2, R_3;

bool congratulationDisplayed = false;
bool congratulationDisplayed_2 = false;

```

```

using namespace std;
int sum_2=0;
int sum_1 = 0;
void ladders_2();
void snakes_2();
void ladders();
void snakes();
void image();
void image_2();
void screen();
void Secondplayer();
void menu();

```

```

void Firstplayer()
{
    menu();

    char key = ' ';

    while (key != 'q')
    {
        system("color 0A");
        userRoll_1 = (std::rand() % 6) + 1; // Move the r
        cout << "FIRST Player_Roll  Dice" << endl;
        key = _getch();
        cout << "FIRST PLAYER Rolled: " << userRoll_1 <
        cout<<"PRESS (ESC) KEY TO CLOSE  GRAPHIC WI
        image();
        screen();

        if ((userRoll_1 == 6 || userRoll_1 == 1) && !co
        {

            cout << "Roll Dice Again As your Token has
            cout<<"*****
            cout << "CONGRATULATION!! TOKEN OPEN:" << e
            congratulationDisplayed = true;
            sum_1 = 1;
            cout << "DESTINATION:" << sum_1 << endl;
            cout<<"PRESS (ESC) KEY TO CLOSE  GRAPHIC WI

```

```

        screen();
    }
    else
    {
        if (congratulationDisplayed)
        {
            sum_1 += userRoll_1; // Add the roll to
        }
        else
        {
            sum_1 += userRoll_1; // Add the roll to

        }

        if (userRoll_1 != 6 && userRoll_1 != 1)
        {
            cout<<"=====
        }
    }

    if (userRoll_1 == 6 || userRoll_1 == 1)
    {
        Roll_2 = (std::rand() % 6) + 1; // Move the

        key = _getch();
        cout << "FIRST PLAYER Rolled: " << Roll_2 <

        sum_1 += Roll_2;
    }

```

```

cout << "DESTINATION:" << sum_1 << endl;
cout<<"PRESS (ESC) KEY TO CLOSE GRAPHI
        ladders();
        snakes();
        image();

    screen();
    if (Roll_2 != 6 && Roll_2 != 1)
    {
        cout<<"=====
    }
}

while (Roll_2 == 6 || Roll_2 == 1)

{
    ladders();
    snakes();
    cout<<"PRESS (ESC) KEY TO CLOSE GRAPHI
    screen();
    cout << "FIRST PLAYER ROLL Dice:" << endl;
    key = _getche();
    Roll_3 = (std::rand() % 6) + 1;
    cout << "FIRST PLAYER Rolled: " << Roll_3 <

    sum_1 += Roll_3;
    cout << "Destination:" << sum_1 << endl;

    congratulationDisplayed = false;

```

```
ladders();
snakes();

screen();
if (Roll_3 != 6 && Roll_3 != 1)
{

    cout<<"*****";
        Secondplayer();

}


Secondplayer();

}

Secondplayer();

}

}

}

//second _player
//int playerRoll_2,R_2,R_3;
void Secondplayer(){
    char key_2 = ' ';
```

```

playerRoll_2 = (std::rand() % 6) + 1; // Move the
cout << "SECOND Player_Roll Dice" << endl;
key_2 = _getch();
cout << "SECOND PLAYER Rolled: " << playerRoll_2
    image_2();
    cout<<"PRESS (ESC) KEY TO CLOSE GRAPHIC WI
screen();

```

```

if ((playerRoll_2 == 6 || playerRoll_2 == 1) &&
{

```

```

    cout << "Roll Dice Again As your Token has
    cout<<"*****
    cout << "CONGRATULATION!! TOKEN OPEN:" << e
    congratulationDisplayed_2 = true;
    sum_2 = 1;
    cout << "DESTINATION:" << sum_2 << endl;
    cout<<"PRESS (ESC) KEY TO CLOSE GRAPHI
screen();
}

```

```

else

```

```

{

```

```

    if (congratulationDisplayed_2)
    {

```

```

        sum_2 += playerRoll_2; // Add the roll
    }

```

```

    else

```

```

    {

```

```

        sum_2 += playerRoll_2; // Add the roll
    }

```

```

    }

    if ( playerRoll_2 != 6 && playerRoll_2 != 1)
    {
        cout<<"=====
    }
}

if (playerRoll_2 == 6 || playerRoll_2 == 1)
{
    R_2 = (std::rand() % 6) + 1; // Move the ra

    key_2 = _getch();
    cout << "SECOND PLAYER Rolled: " << R_2 <<
    sum_2 += R_2;

    cout << "DESTINATION:" << sum_2 << endl;
    cout<<"PRESS (ESC) KEY TO CLOSE  GRAPHI
screen();
    ladders_2();
    snakes_2();
    if (R_2 != 6 && R_2 != 1)
    {
        cout<<"=====
    }
}

while (R_2 == 6 || R_2 == 1)

```

```

{
    ladders_2();
    cout<<"PRESS (ESC) KEY TO CLOSE GRAPHIC WI
        snakes_2();

screen();
    cout << "SECOND PLAYER ROLLED Dice:" << endl;
    key_2 = _getche();
    R_3 = (std::rand() % 6) + 1;
    cout << "SECOND PLAYER Rolled: " << R_3 <<

    sum_2 += R_3;
    cout << "Destination:" << sum_2 << endl;
        ladders_2();
        snakes_2();
        congratulationDisplayed_2 = false;

}
}

```

//LADDER_1 POSITION

```

void ladders()
{

```

```

    if (sum_1 ==2)
    {

```



```

        sum_1=23;

        PlaySound(TEXT("clapping.wav"),NULL,SND
        cout << "LADDER_DESTINATION:" << sum_1 << e
    }
    else if(sum_1 == 6)    {

        sum_1=45;

        PlaySound(TEXT("clapping.wav"),NULL
        cout << "LADDER_DESTINATION:" << sum_1 << e

    }

    else if(sum_1==20)
    {

        sum_1=42;
        PlaySound(TEXT("clapping.wav"),NULL

        cout << "LADDER_DESTINATION:" << sum_1 << e
    }
    else if(sum_1==52)
    {
        sum_1=72;
        PlaySound(TEXT("clapping.wav"),NULL,SND
        cout<< "LADDER_DESTINATION:" <<sum_1<< endl
    }
    else if(sum_1==57)
    {

```

```

        sum_1=96;

        PlaySound(TEXT("clapping.wav"),NULL,SND
cout << "LADDER_DESTINATION:" << sum_1 << e
    }
else if(sum_1==71)    {

        sum_1=92;

        PlaySound(TEXT("clapping.wav"),NULL
cout << "LADDER_DESTINATION:" << sum_1 << e
    }
//SNAKE POSITION
}
string play_1, play_2;
void snakes()
{

    if (sum_1 ==43)
    {

        sum_1=17;

        PlaySound(TEXT("OH.wav"),NULL,SND_SYNC)
        PlaySound(TEXT("hiss.wav"),NULL,SND
cout << "SNAKE SLIDE _DESTINATION:" << sum_

```

```
}
```

```
else if (sum_1 ==50)
```

```
{
```

```
    sum_1=5;
```

```
        PlaySound(TEXT("OH.wav"),NULL,SND_S
```

```
        PlaySound(TEXT("hiss.wav"),NULL,SND
```

```
cout << "SNAKE SLIDE _DESTINATION:" << sum_
```

```
}
```

```
else if (sum_1 ==56)
```

```
{
```

```
    sum_1=8;
```

```
        PlaySound(TEXT("OH.wav"),NULL,SND_S
```

```
        PlaySound(TEXT("hiss.wav"),NULL,SND
```

```
cout << "SNAKE SLIDE _DESTINATION:" << sum_
```

```
}
```

```
else if (sum_1 ==73)
```

```
{
```

```
    sum_1=15;
```

```
        PlaySound(TEXT("OH.wav"),NULL,S
```

```
        PlaySound(TEXT("hiss.wav"),NULL,SND
```

```

    cout << "SNAKE SLIDE _DESTINATION:" << sum_1;
}
else if (sum_1 ==84)
{

    sum_1=58;
    PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
    PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);

    cout << "SNAKE SLIDE _DESTINATION:" << sum_1;
}
else if (sum_1 ==87)
{

    sum_1=49;
    PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
    PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);
    cout << "SNAKE SLIDE _DESTINATION:" << sum_1;
}
else if (sum_1 ==98)
{

    sum_1=40;
    PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
    PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);

```

```

        cout << "SNAKE SLIDE _DESTINATION:" << sum_1 << endl;
    }
else if(sum_1==100)
{
    cout<<"WINNER OF MATCH IS PLAYER_1:"<<play_1<<endl;
    sum_1=0;
    cout<<"DO YOU WANTED TO PLAY AGAIN ! PRESS Y/N :";
    getch();

}
else if(sum_1>100)
{
    cout<<"OUT OF RANGE !! ROLL YOUR DICE TO REACH TO LIMIT";
    cout<<"Play till you reach to limit -->";
}
}
//ladder &snakes

void ladders_2()
{

    if (sum_2 ==2)
    {

        sum_2=23;

        PlaySound(TEXT("clapping.wav"),NULL,SND_ASYNC);
        cout << "LADDER_DESTINATION:" << sum_2 << endl;
    }
}

```

```

}
else if(sum_2 == 6)    {

    sum_2=45;

    PlaySound(TEXT("clapping.wav"),NULL
cout << "LADDER_DESTINATION:" << sum_2 << e

}

else if(sum_2==20)
{

    sum_2=42;
    PlaySound(TEXT("clapping.wav"),NULL

    cout << "LADDER_DESTINATION:" << sum_2 << e

}
else if(sum_2==52)
{
    sum_2=72;
    PlaySound(TEXT("clapping.wav"),NULL,SND
    cout<< "LADDER_DESTINATION:" <<sum_2<< endl
}
else if(sum_2==57)
{

    sum_2=96;

    PlaySound(TEXT("clapping.wav"),NULL,SND

```

```

        cout << "LADDER_DESTINATION:" << sum_2 << endl;
    }
    else if(sum_2==71)    {

        sum_2=92;

        PlaySound(TEXT("clapping.wav"),NULL,SND_ASYNC);
        cout << "LADDER_DESTINATION:" << sum_1 << endl;
    }
    //SNAKE POSITION
}

void snakes_2()
{

    if (sum_2 ==43)
    {

        sum_2=17;

        PlaySound(TEXT("OH.wav"),NULL,SND_SYNC);
        PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);
        cout << "SNAKE SLIDE _DESTINATION:" << sum_1 << endl;
    }

    else if (sum_2 ==50)
    {

```

```

        sum_2=5;

        PlaySound(TEXT("OH.wav"),NULL,SND_S
        PlaySound(TEXT("hiss.wav"),NULL,SND
cout << "SNAKE SLIDE _DESTINATION:" << sum_
    }
else if (sum_2 ==56)
{

    sum_2=8;
    PlaySound(TEXT("OH.wav"),NULL,SND_S
    PlaySound(TEXT("hiss.wav"),NULL,SND

    cout << "SNAKE SLIDE _DESTINATION:" << sum_
    }
else if (sum_2 ==73)
{

    sum_2=15;

    PlaySound(TEXT("OH.wav"),NULL,S
    PlaySound(TEXT("hiss.wav"),NULL,SND
    cout << "SNAKE SLIDE _DESTINATION:" << sum_
    }
else if (sum_2 ==84)
{

```



```

        sum_2=58;
        PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
        PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);

        cout << "SNAKE SLIDE _DESTINATION:" << sum_2;
    }
    else if (sum_2 ==87)
    {

        sum_2=49;

        PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
        PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);
        cout << "SNAKE SLIDE _DESTINATION:" << sum_2;
    }
    else if (sum_2 ==98)
    {

        sum_2=40;

        PlaySound(TEXT("OH.wav"),NULL,SND_ASYNC);
        PlaySound(TEXT("hiss.wav"),NULL,SND_ASYNC);

        cout << "SNAKE SLIDE _DESTINATION:" << sum_2;
    }
}
else if(sum_2==100)
{

```

```

        cout<<"WINNER OF MATCH IS Player_2:"<<play_
        sum_2=0;
        cout<<"DO YOU WANTED TO PLAY AGAIN ! PRESS
        getch();

    }
    else if(sum_2>100)
    {
        cout<<"OUT OF RANGE !! ROLL YOUR DICE TI
        cout<<"Play till you reach to limit -->100

    }
}

void menu()
{

    cout<<"SNAKES & LADDER GAME " <<endl;
    cout<<"ENJOY IT!"<<endl;
    cout<<"*-----"
    cout<<"*****PRESS(X)*****"
    char a;
do{
    cout<<"Enter x to play the Game:"<<endl;
    cin>>a;
    if(a=='x')
    {
        cout<<"PRESS (q) for Quit if you do not wanted to
        cout<<"TWO-PLAYERS GAME"<<endl;

```

```

cout<<":"<<endl;
cout<<"*****"
cout<<" "<<endl;
cout<<"RED TOKEN IS  FOR  FIRST -PLAYER "<<endl;
cout<<"BLUE TOKEN IS  FOR SECOND -PLAYER"<<endl;

cout << "(2) PLAYERS GAME:" << endl;
    cout<<"Enter 5-keyword in your  Name(ONLY First N
cout << "ENTER FIRST PLAYER-NAME: " << endl;
cin >> play_1;
cout << "ENTER SECOND PLAYER-NAME: " << endl;
cin >> play_2;
cout<<"*****"
}
else{
    cout<<"KEY NOT MATCHES!!"<<endl;
}
}while(a!='x');
}

```

```

void image()
{

```

```

    if(userRoll_1==1){

```

```

initwindow(800, 600, "DICE ROLL_1");
readimagefile("dice_1.jpg", 0, 0, getmaxx(), get

```

```
        delay(500);
        closegraph();
    }
    else if(userRoll_1==2)
    {
        initwindow(800, 600, "DICE ROLL_1");
        readimagefile("dice_2.jpg", 0, 0, getmaxx(), getmaxy());

        delay(500);
        closegraph();
    }
    else if(userRoll_1==3){

        initwindow(800, 600, "DICE ROLL_1");
        readimagefile("dice_3.jpg", 0, 0, getmaxx(), getmaxy());

        delay(500);
        closegraph();
    }
    else if(userRoll_1==4){

        initwindow(800, 600, "DICE ROLL_1");
        readimagefile("dice_4.jpg", 0, 0, getmaxx(), getmaxy());

        delay(5000);
        closegraph();
    }
    else    if(userRoll_1==5){
```

```

initwindow(800, 600, "DICE ROLL_1");
    readimagefile("dice_5.jpg", 0, 0, getmaxx(), get
    delay(500);
    closegraph();
}
else    if(userRoll_1==6){

initwindow(800, 600, "DICE ROLL_1");
    readimagefile("dice_6.jpg", 0, 0, getmaxx(), get

    delay(500);
    closegraph();
}
}
void image_2()
{

    if(playerRoll_2==1){

initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_1.jpg", 0, 0, getmaxx(), get

    delay(500);
    closegraph();
    }    else    if(playerRoll_2==2){

initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_2.jpg", 0, 0, getmaxx(), get

```

```
        delay(500);
        closegraph();
    }
    else if(playerRoll_2==3){
initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_3.jpg", 0, 0, getmaxx(), get
        delay(500);
        closegraph();
    }
    else if(playerRoll_2==4){
initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_4.jpg", 0, 0, getmaxx(), get
        delay(500);
        closegraph();
    }
else    if(playerRoll_2==5){
initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_5.jpg", 0, 0, getmaxx(), get
        delay(500);
        closegraph();
    }
else    if(playerRoll_2==6){
```

```

initwindow(800, 600, "DICE ROLL_2");
    readimagefile("dice_6.jpg", 0, 0, getmaxx(), getmaxy());

    delay(500);
    closegraph();
}
}

void screen()
{
    char a;

    initwindow(800, 600, "SNAKES & LADDERS -BOARD");

    int x = 1, y = 539; // Initial coordinates
    int width = 80, height = 70;
    int j = 1, k = 539; // Initial coordinates
    int w = 80, h = 70;

    // Load and display background image
    readimagefile("snake.jpg", 0, 0, getmaxx(), getmaxy());

    while (true) {
        if (_kbhit()) {
            char key = _getch();
            if (key == 27) { // 27 is the ASCII code for escape
                break;
            }

            // Update coordinates based on arrow key

```

```

if (key == 72) { // Up arrow key
    y -= 10;
} else if (key == 80) { // Down arrow key
    y += 10;
} else if (key == 75) { // Left arrow key
    x -= 10;
} else if (key == 77) { // Right arrow key
    x += 10;
}

if (key == 27) { // 27 is the ASCII code for
    break;
}

// Update coordinates based on arrow key
if (key == 'a') { // Up arrow key
    j -= 10;
} else if (key == 'd') { // Down arrow key
    j += 10;
} else if (key == 'w') { // Left arrow key
    k -= 10;
} else if (key == 's') { // Right arrow key
    k += 10;
}

cleardevice();
// Draw on the off-screen buffer
readimagefile("snake.jpg", 0, 0, getmaxx(),
readimagefile("r.jpg", x, y, x + width, y +
readimagefile("b.jpg", j, k, j + w, k + h));

```



```
        // Swap the off-screen buffer with the on-s
        swapbuffers();

        // Introduce a delay of 100 milliseconds

    }

}

// Close the graphics window
closegraph();
}
```

```
int main()
{
    srand(static_cast<unsigned int>(time(0)));
    Firstplayer();
    snakes();
    image();
    image_2();
    screen();
    ladders();
    snakes_2();
    ladders_2();
}
```

```
    menu();  
    Secondplayer();  
return 0;  
}
```