

A PROJECT REPORT

CASINO GAME PROJECT

Submitted in partial fulfilment of the

Requirements for the award of

Degree of Bachelor of Technology in Computer Science Engineering



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DECLARATION :

We hereby declare that the Industrial Training Report entitled (CASINO GAME PROJECT) is an authentic record of our teams own work as requirements of Industrial Training during the period from 2021 to 2022 for the award of degree of B.Tech. (Computer Science & Engineering), IMS ENGINEERING COLLEGE,GZB, under the guidance of Mr. Aditya Sam Koshy

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Date: 13-12-2021

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ABSTRACT:

C++ provides rich library support in the form of Standard Template Library (STL). C++ program on CASINO GAME is simple text base number guessing game. This project spatiality is we use in procedure oriented approach C++ is a high-level object-oriented programming language that helps programmers write fast, portable programs. to design casino number guessing game. With this guessing game player can deposit his money to play. From this amount he can bet on number between 1 and 10. If he wins he gets 10 times of money otherwise lost his money. As casino is played worldwide and is quiet a risky game, this number guessing game will help us in making better economic decisions. This project is very interesting project when users play this, they will really like the project.

INTRODUCTION:

Playing games at a casino can be both profitable and fun, and the latter is almost always true if you approach your session with the correct mindset. Games available in casinos are commonly called “Casino games”. In a casino game, the players gamble casino chips on various possible random outcomes or combinations of outcomes. Casino games are also available in online casinos. They can also be played outside for entertainment purposes like

in parties or in school competitions, some on machines that stimulate gambling. A casino is a public room or a building where games, especially roulette and card games are played to win money. A **casino** is a facility which houses and accommodates certain types of gambling activities. The industry that deals in casinos is called the **gaming industry**. Casinos are most commonly built near or combined with hotels, restaurants, retail shopping, cruise ships or other tourist attractions. There is much debate over whether the social and economic consequences of casino gambling outweigh the initial revenue that may be generated. Some casinos are also known for hosting live entertainment events, such as stand-up comedy, concerts, and sporting events. The term "casino" is a confusing linguistic false friend for translators. **Casino** is of Italian origin; the root casa means a house. The term casino may mean a small country villa, summerhouse, or social club.

ABOUT THE GAME:

Casino is a number guessing game. Player deposits an initial amount to start playing game. He guesses a number between 1 to 10 and enters betting amount. If he wins he will get 10 times of money he bets. If he bets on wrong number he will lost his betting amount. Game continues till user wants to play.

There are three general categories of casino games: table games, electronic gaming machines, and random number ticket games such as keno. Gaming machines, such as slot machines and pachinko, are usually played by one player at a time and do not require the involvement of casino employees to play. Random number games are based upon the selection of random numbers, either from a computerized random number generator or from other gaming equipment.

The luck factor in a casino game is quantified using standard deviations (SD). As the number of rounds increases, eventually, the expected loss will exceed the standard deviation, many times over.

ALGORITHM:

1. Start
2. Read variables Playername, Amount
3. Do
 Read Bettingamount
 While(choice==y||choice==n)
4. If Bettingamount > Amount
 Read guess
 dice=rand() % 10 + 1 else

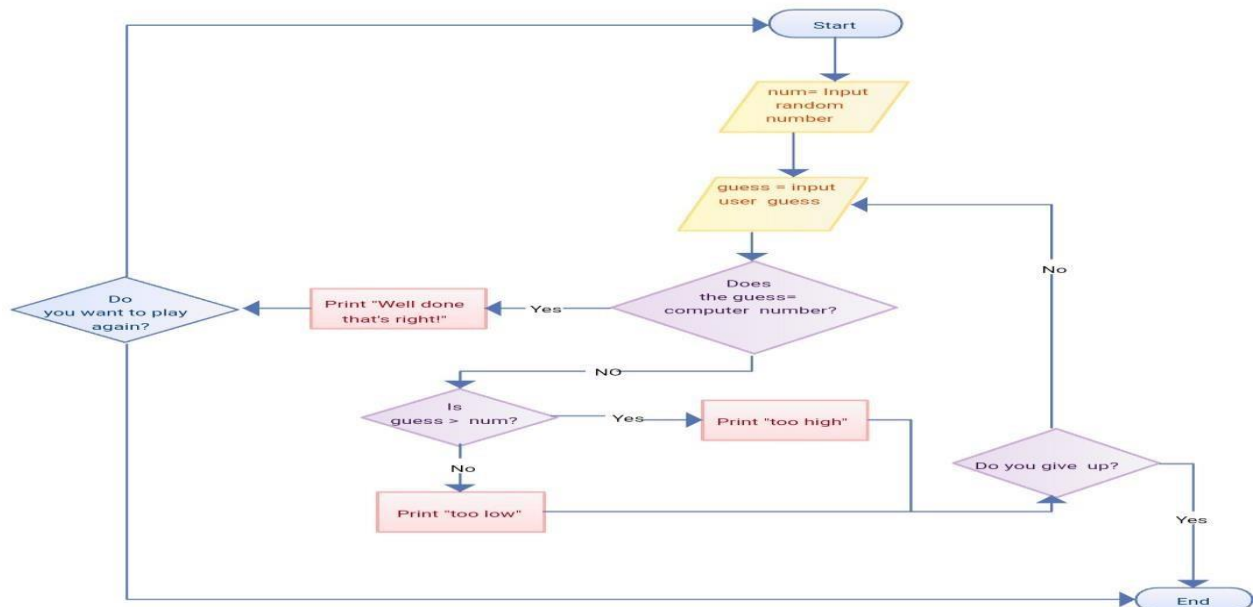
 Display re-enter the Bettingamount
5. if guess=Diceamount
 Amount=Bettingamount * 10 else

$\text{Amount} = \text{Amount} - \text{Betting amount}$

6.Repeat steps 3,4,5

7.Stop

FLOWCHART:



ADVANTAGES AND DISADVANTAGES:

Advantages: 1. The main advantage is that, these games can be potentially rewarding based on the player's skill level.

2.They are fun to play and even provide entertainment. It is a form of leisure and a relaxation method.

3.Players get a unique chance to finish the game with big wins. They can immediately win twice or thrice of the amount they bet.

4.Game play is an important part of human behaviour but it has taken on more importance than in the individual person's development. The techniques to win would also improve our self-discipline.

5.They create new forms of revenue. Casinos in a community can surely increase employment of people.

6.They can contribute to government budgets.

Disadvantages:

1.It has problems with licensing and legality in different countries.

2.Children might get addicted to it and start gambling at a very young age.

3.Loss of existing amount can happen in case of bad luck.

CODE:

```
#include <iostream>
```

```
#include <string>
```

```
#include <cstdlib>
```

```
#include <ctime>
```



```
using namespace std;

void drawLine(int n, char symbol);

void rules();

int main()
{
    string playerName;

    int amount;

    int bettingAmount;

    int guess;

    int dice;

    char choice;

    srand(time(0)); // "Seed" the random generator

    drawLine(60,'_');

    cout << "\n\n\t\tCASINO GAME\n\n\n\n";

    drawLine(60,'_');

    cout << "\n\nEnter Your Name : ";

    getline(cin, playerName);

    cout << "\n\nEnter Deposit amount to play game : $";

    cin >> amount;

    do
```

```

{
    system("cls");
    rules();
    cout << "\n\nYour current balance is $ " << amount << "\n";
    do
    {
        cout << playerName << ", enter money to bet : $";
        cin >> bettingAmount;
        if(bettingAmount > amount)
            cout << "Your betting amount is more than your current
balance\n" << "\nRe-enter data\n ";
    }while(bettingAmount > amount);
    do
    {
        cout << "Guess your number to bet between 1 to 10 :";
        cin >> guess;
        if(guess <= 0 || guess > 10)
            cout << "Please check the number!! should be between 1 to
10\n"
            << "\nRe-enter data\n ";
    }while(guess <= 0 || guess > 10);

```

dice = rand()%10 + 1; // Will hold the randomly generated integer
between 1 and 10

 if(dice == guess)

 {

 cout << "\n\nGood Luck!! You won Rs." << bettingAmount * 10;

 amount = amount + bettingAmount * 10;

 }

 else

 {

 cout << "Bad Luck this time !! You lost \$ " << bettingAmount
<< "\n";

 amount = amount - bettingAmount;

 }

 cout << "\nThe winning number was : " << dice << "\n";

 cout << "\n" << playerName << ", You have \$ " << amount << "\n";

 if(amount == 0)

 {

 cout << "You have no money to play ";

 break;

 }

 cout << "\n\n-->Do you want to play again (y/n)? ";

```

        cin >> choice;

    }while(choice == 'Y' || choice == 'y');

    cout << "\n\n\n";

    drawLine(70,'=');

    cout << "\n\nThanks for playing game. Your balance amount is $ " <<
amount << "\n\n";

    drawLine(70,'=');

    return 0;

}

void drawLine(int n, char symbol)

{

    for(int i=0; i<n; i++)

        cout << symbol;

        cout << "\n" ;

}

void rules()

{

    system("cls");

    cout << "\n\n";

    drawLine(80,'-');

    cout << "\t\tRULES OF THE GAME\n";

```

```
drawLine(80,'-');

cout << "\t1. Choose any number between 1 to 10\n";

cout << "\t2. If you win you will get 10 times of money you bet\n";

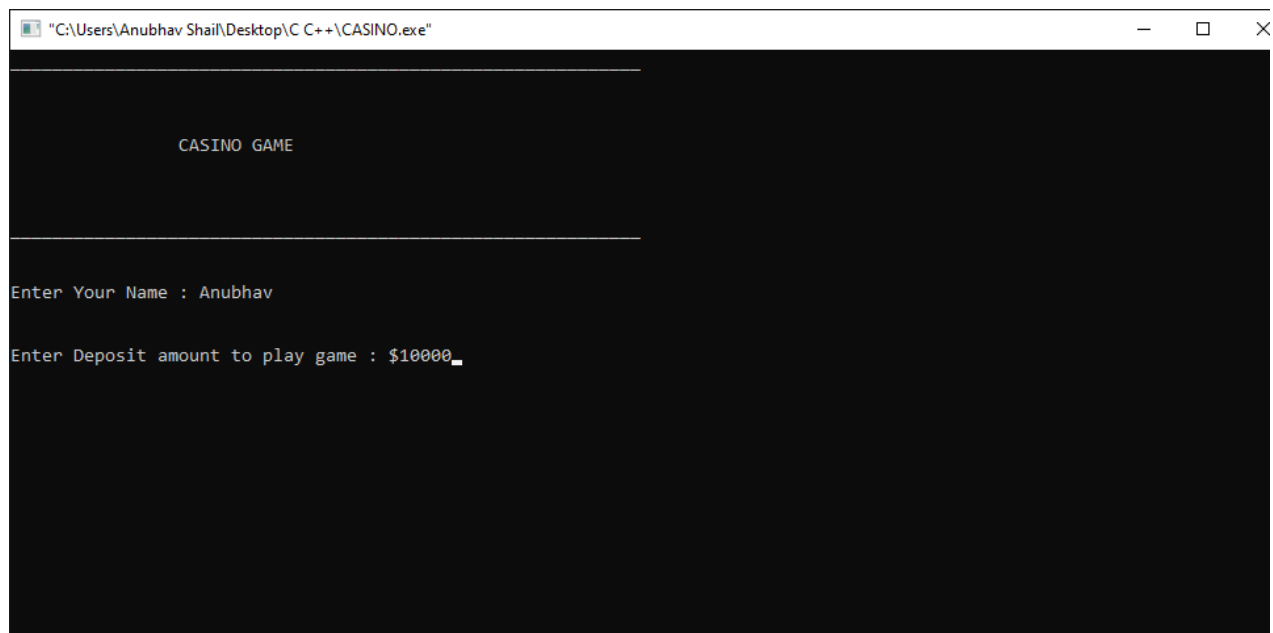
cout << "\t3. If you bet on wrong number you will lose your betting
amount\n\n";

drawLine(80,'-');

}

// END OF PROGRAM
```

TESTING:



```
"C:\Users\Anubhav Shail\Desktop\C C++\CASINO.exe"

-----
RULES OF THE GAME
-----
1. Choose any number between 1 to 10
2. If you win you will get 10 times of money you bet
3. If you bet on wrong number you will lose your betting amount
-----

Your current balance is $ 10000
Anubhav, enter money to bet : $100
Guess your number to bet between 1 to 10 :7
Bad Luck this time !! You lost $ 100

The winning number was : 8

Anubhav, You have $ 9900

-->Do you want to play again (y/n)?
```

```
"C:\Users\Anubhav Shail\Desktop\C C++\CASINO.exe"

-----
RULES OF THE GAME
-----
1. Choose any number between 1 to 10
2. If you win you will get 10 times of money you bet
3. If you bet on wrong number you will lose your betting amount
-----

Your current balance is $ 9900
Anubhav, enter money to bet : $90
Guess your number to bet between 1 to 10 :34
Please check the number!! should be between 1 to 10

Re-enter data
Guess your number to bet between 1 to 10 :7
Bad Luck this time !! You lost $ 90

The winning number was : 3

Anubhav, You have $ 9810

-->Do you want to play again (y/n)? _
```

```
"C:\Users\Anubhav Shail\Desktop\C++\CASINO.exe"

-----
RULES OF THE GAME
-----
1. Choose any number between 1 to 10
2. If you win you will get 10 times of money you bet
3. If you bet on wrong number you will lose your betting amount
-----

Your current balance is $ 8910
Anubhav, enter money to bet : $100
Guess your number to bet between 1 to 10 :6

Good Luck!! You won Rs.1000
The winning number was : 6

Anubhav, You have $ 9910

-->Do you want to play again (y/n)?
```

```
"C:\Users\Anubhav Shail\Desktop\C++\CASINO.exe"

-----
RULES OF THE GAME
-----
1. Choose any number between 1 to 10
2. If you win you will get 10 times of money you bet
3. If you bet on wrong number you will lose your betting amount
-----

Your current balance is $ 987
Anubhav, enter money to bet : $988
Your betting amount is more than your current balance

Re-enter data
Anubhav, enter money to bet : $100
Guess your number to bet between 1 to 10 :6
Bad Luck this time !! You lost $ 100

The winning number was : 9

Anubhav, You have $ 887

-->Do you want to play again (y/n)?
```

CONCLUSION:

In this casino guessing game the player can see the amount he has played on, the right decision to be made, by showing the amount he will win or lose by playing a number. The player can add all the details including the number played and amount left. The player can finally play his chance by following the instructions given by the software. Since casino games are being played enormously worldwide, this source code is developed to avoid taking risky decisions. In this game you either become a billionaire or go bankrupt. No need to worry about the pre knowledge and experience, the computer will take care of your decision making.

REFERENCE:

<https://www.google.com/>

<https://www.youtube.com/>