



Sukkur Institute of Business Administration University

Department of Electrical Engineering

CSE-121: PROGRAMMING FOR ENGINEERS (PFE)

Semester Project

Fall - 2021

Casino Number Guessing Game

Group Members:

1. Ukasha Abdul Majeed

2. Arslan Aslam

Instructor: Engr. Aizaz Ali Larik

Lab Engineer (Electrical Engineering)

Table of Contents

Sr. No #	Topic	Page. #NO.
1.	Certificate	2
2.	Certificate	3
3.	Introduction	4
4.	Working Principle	4
5.	Flow chart	5, 6
6.	Output	7
7.	Code	8, 9, 10

CERTIFICATE

*It is certified that **Mr. Ukasha Abdul Majeed** having **CMS**
ID 031-21-0006 a student of **BE-II** has carried out the “**Semester**
Project” for the subject of **Programming for Engineers (PfE)** as
provided by the Instructor of the subject at the department of Electrical
Engineering, Sukkur Institute of Business Administration for**Fall-2021**.*

Date: _____

Instructor's Signature

CERTIFICATE

*It is certified that **Mr. Arslan Aslam** having **CMS ID 031-21-0002** a student of **BE-II** has carried out the “**Semester Project**” for the subject of **Programming for Engineers (PfE)** as provided by the Instructor of the subject at the department of Electrical Engineering, Sukkur Institute of Business Administration for **Fall-2021**.*

Date: _____

Instructor's Signature

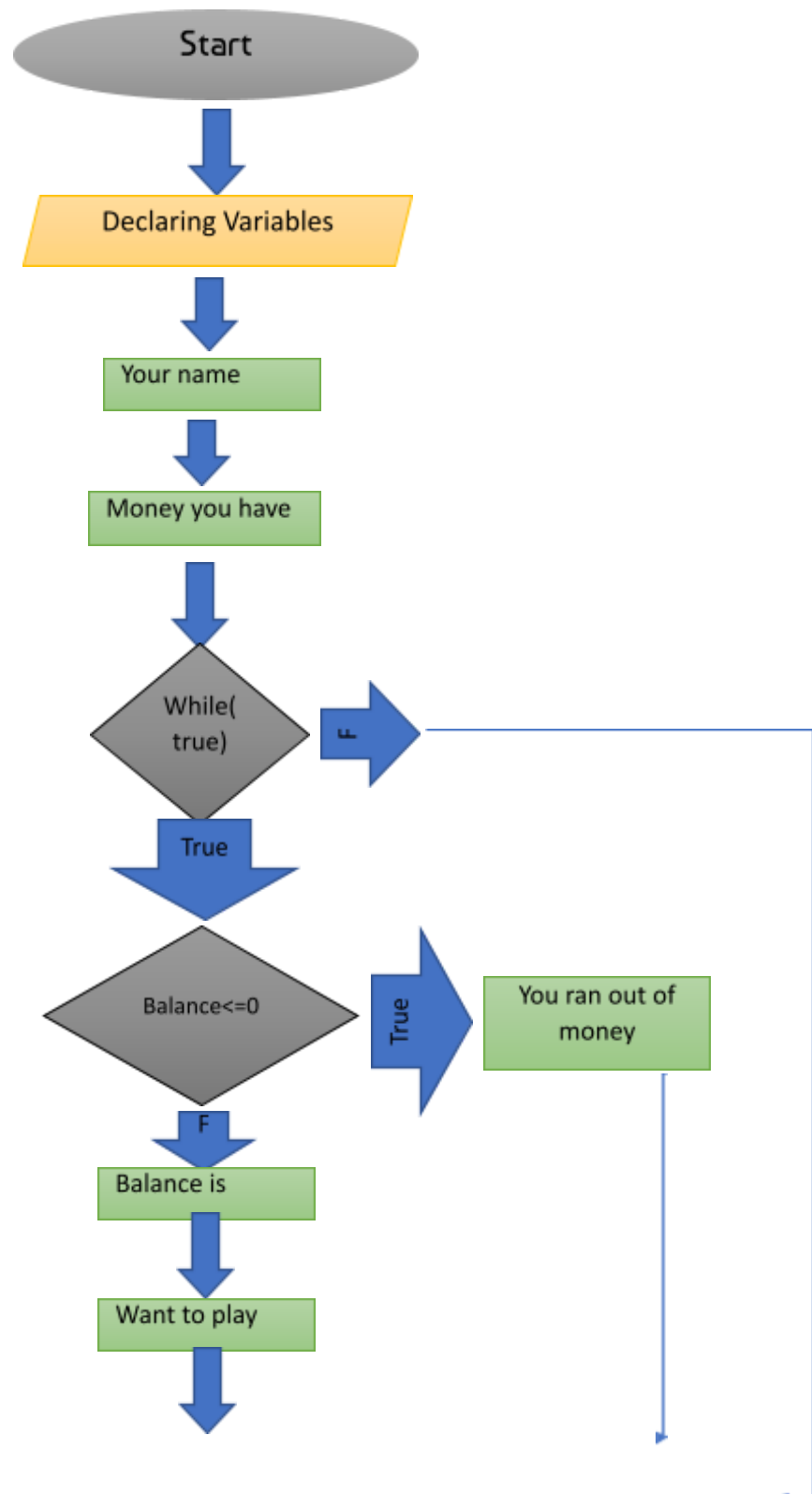
Introduction:

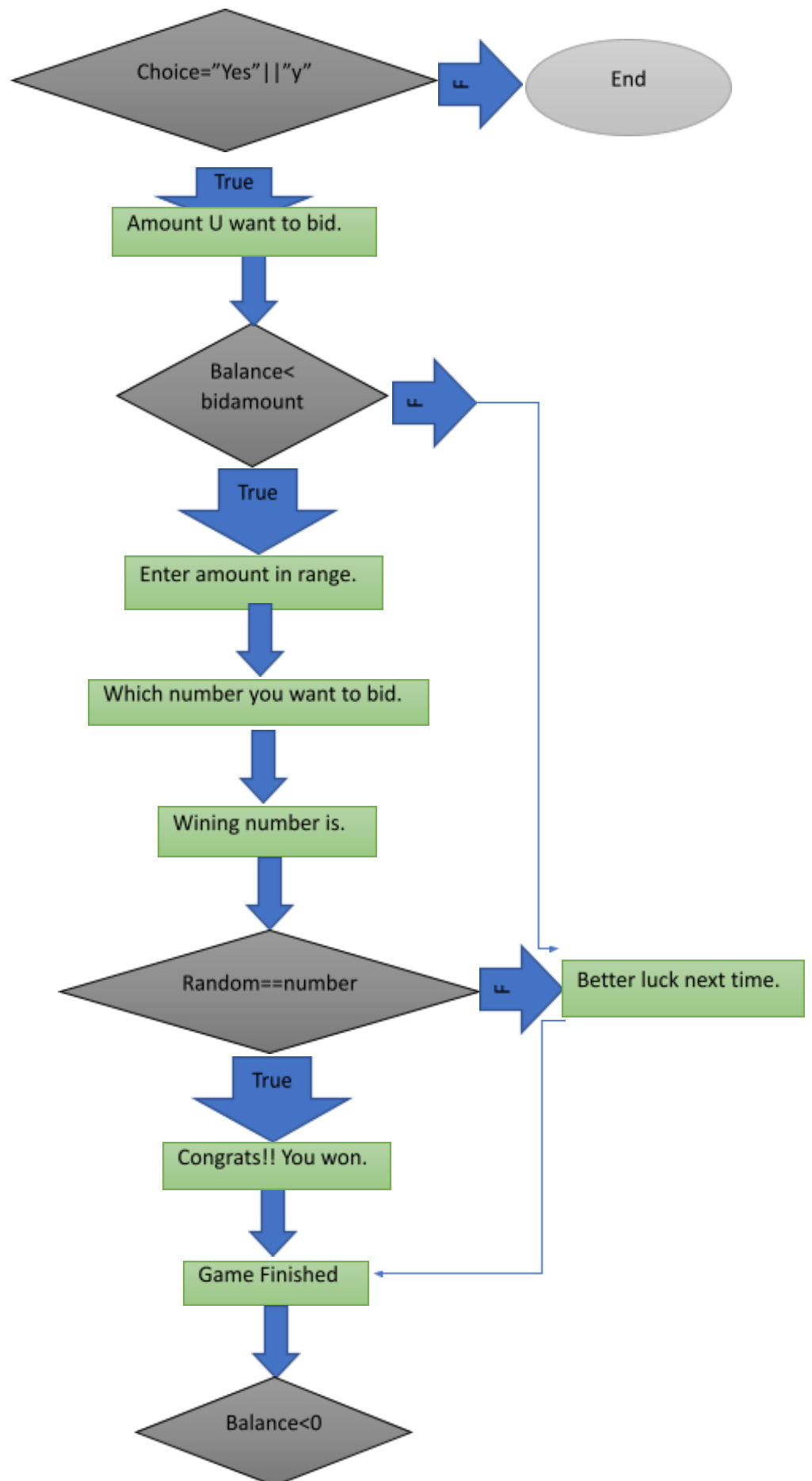
Casino Game is a game in which a bid on a number and if that number wins. He/she will win more than his/her bidding amount and if he/she lost than their amount will become will zero.

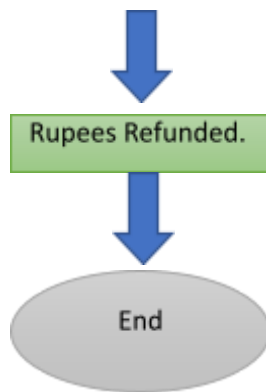
Working Principle:

- First it will ask you to enter your name.
- Than after successfully writing your name program will ask you to write your balance or money which you have.
- Than program will ask you that are you sure you want to play. You have to answer as yes or no.
- Than it will ask you that how much amount you want to bid from your balance.
- After you successfully put bidding amount. Program will ask you that on which number you want to bid on.
- So now it will depend on your luck. If the winning number and your bidding number is same than you will get 5 times of your bidding amount.
- If winning number and your bidding number is not same than bided amount will be deducted from your balance.
- After this program will ask you again that whether you want to play game or not. If you will say yes than it will run again and if you will say no than program will exit and will refund your remaining balance.

Flow Chart:







Output:

```

CCCCCCCCCCCC  AAAAAAAAAA  SSSSSSSS  IIIIIIIIIII  NNNN NN      NNNN 00000000000000
CCCCCCCCCCCC  AAAAAAAAAA  SSSSSSSS  IIIIIIIIIII  NNNN NN      NNNN 00000000000000
CC             AA      AA  SS             II        NNNN NN      NNNN 00      00
CC             AA      AA  SS             II        NNNN NN      NNNN 00      00
CC             AA      AA  SSSSSSSS      II        NNNN NN      NNNN 00      00
CC             AAAAAAAAAA  SSSSSSSS      II        NNNN NN      NNNN 00      00
CC             AAAAAAAAAA  SS             II        NNNN NN      NNNN 00      00
CC             AA      AA  SS             II        NNNN NN      NNNN 00      00
CCCCCCCCCCCC  AA      AA  SSSSSSSS      IIIIIIIIIII  NNNN NN      NNNN 00000000000000
CCCCCCCCCCCC  AA      AA  SSSSSSSS      IIIIIIIIIII  NNNN NN      NNNN 00000000000000

By Ukasha Abdul Majeed & Arslan Aslam

What is your name: Ukasha

How much money do you have: 750
YOUR BALANCE: 750

Do you want to play the game(Yes or No): yes

How much amount do you want to bid: 100
On which number do you want to bid on: (input range: 1 to 5): 3
The winning number is: 4
Ukasha You lost!!!! Better Luck next time!!!!
YOUR BALANCE: 650

Do you want to play the game(Yes or No): yes

How much amount do you want to bid: 50
On which number do you want to bid on: (input range: 1 to 5): 4
The winning number is: 5
Ukasha You lost!!!! Better Luck next time!!!!
YOUR BALANCE: 600

Do you want to play the game(Yes or No): no
GAME FINISHED...
600 Rupees Refunded.....
-----
Process exited after 44.37 seconds with return value 0
Press any key to continue . . .
  
```


Code:

```
#include<iostream>
#include<cstring>
#include<cstdlib>
#include<ctime>

using namespace std;

int main(){
    cout<<"  CCCCCCCCCCCC  AAAAAAAAAAAAAA  SSSSSSSSS  IIIIIIIIII
NNNN NN      NNNN  OOOOOOOOOOOOOOOO"<<endl;
    cout<<"  CCCCCCCCCCCC  AAAAAAAAAAAAAA  SSSSSSSSS  IIIIIIIIII
NNNN NN      NNNN  OOOOOOOOOOOOOOOO"<<endl;
    cout<<"  CC      AA      AA  SS      II      NNNN  NN      NNNN
OO      OO"<<endl;
    cout<<"  CC      AA      AA  SS      II      NNNN  NN      NNNN
OO      OO"<<endl;
    cout<<"  CC      AA      AA  SSSSSSSSS  II      NNNN  NN
NNNN OO      OO"<<endl;
    cout<<"  CC      AAAAAAAAAAAAAA  SSSSSSSSS  II      NNNN
NN  NNNN OO      OO"<<endl;
```

```

    cout<<"    CC      AAAAAAAAAAAAAA      SS    II    NNNN    NN
NNNN OO      OO"<<endl;

```

```

    cout<<"    CC      AA    AA      SS    II    NNNN    NN NNNN
OO      OO"<<endl;

```

```

    cout<<"    CCCCCCCCCCCC AA    AA  SSSSSSSSS  IIIIIIIIII NNNN
NN NNNN OOOOOOOOOOOOOOOO"<<endl;

```

```

    cout<<"    CCCCCCCCCCCC AA    AA  SSSSSSSSS  IIIIIIIIII NNNN
NN NNNN OOOOOOOOOOOOOOOO"<<endl<<endl<<endl;

```

```

cout<<"
                                By Ukasha Abdul Majeed & Arslan
Aslam"<<endl<<endl<<endl;

```

```

cout<<"What is your name: ";
string name;
cin>>name;

cout << "\nHow much money do you have: ";
int balance;
cin >> balance;

```

```

while(true){
    if(balance <= 0){
        cout << "You ran out of money.";
        break;
    }

    cout << "YOUR BALANCE: " << balance << endl;
    cout << "\nDo you want to play the game(Yes or No): ";
    string choice;
    cin>>choice;

    if(choice=="yes" || choice=="YES" || choice=="Y" || choice=="y"){
        cout << "\nHow much amount do you want to bid: ";
    }
}

```

```

double bidAmount;

cin >> bidAmount;

if(balance<bidAmount){
    cout<<"Please enter amount in balance range!!!!"<<endl;
    continue;
}

cout << "On which number do you want to bid on: (input range: 1 to
5): ";

int number;
cin >> number;
srand(time(0));
int random = rand()%5+1;
cout<<"The winning number is: "<<random<<endl;

if(random == number){
    balance += bidAmount*5;
    cout << "Congrats!"<<name<<" You won
"<<bidAmount*5<<"Rs.\n";
    continue;
}
else{
    balance -= bidAmount;
    cout <<name<<" You lost!!!! Better Luck next time!!!!\n";
}
}
else{
    cout << "GAME FINISHED..."<<endl;
    if(balance>0){

```

```
        cout<<balance<<" Rupees Refunded.....";  
    }  
    break;  
}  
}  
  
return 0;  
}
```