BALLOT BOX LITE

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ABSTRACT

Ballotbox lite is candidate voting system it is used to vote the candidate in the poll box and vote the candidate to select ,who is get more vote in the election. And compare those candidate who is get's higher vote compared to other candidate and that canditate is selected at the election.Also declared that candidate is the winner in that election.

1.INTRODUCTION

1.1 Problem Definition

The existing manual Voting system consumes more time for Vote Casting. Voter has to wait for vote polling station to vote for a right candidate. The election officers has to be check the voter , this voter can vote in this booth then check voter name and id present in voters list of booth those are information will be present then the voter can vote in that booth. The voter had to stand in the queue to cast his vote. All the work is done in paper ballot so it is very hard to locate a particular candidates, some voters cast their votes for all candidates. Toovercome of all these problems using the ballotbox lite.

1.2 About Project

The objective of the system is a replacement of the traditional system that is in existence. This smart system reduces the time for voting and also the system is reliable, and faster. In this project is used to choose the candidate through the user system.

2. PROJECT ANALYSIS

2.1 Existing System

The voting system currently being used by the association is a paper based system, in which the voter simply picks up ballots sheets from electoral officials, tick off who they would like to vote for, and then cast their votes by merely handing over the ballot sheet back to electoral official.

The electoral officials gather all the votes being cast into a ballot box. At the end of the elections, he electoral officials converge and count the votes cast for each candidate and determine the winner of each election category.

2.2 Proposed System

In this project the reduce to ballotbox and paper work. Also it is used to elect the candidate from the poll box and get the vote from the people by using this code. And select the candidate who is selected at the end is displayed in the outpu

3. Testing and Result

c language code:

```c
#include<stdio.h>
int harish=0, kalai=0, nandha=0, param=0;
void electionResult()
{
    int wonByVote;
    if (harish > kalai && harish > nandha && harish > param)
    {
        printf("\n***harish won the election***\n\n");
        printf("Total vote of harish : %d\n",harish);
        wonByVote=harish-kalai;
        printf("harish won by %d votes to kalai\n",wonByVote);
        wonByVote=harish-nandha;
        printf("harish won by %d votes to nandha\n",wonByVote);
        wonByVote=harish-param;
        printf("harish won by %d votes to param\n",wonByVote);
    }
    else if (kalai > nandha && kalai > param)
    {
        printf("\n***kalai won the election***\n\n");
        printf("Total vote of kalai : %d\n",kalai);
        wonByVote=kalai-harish;
        printf("kalai won by %d votes to harish\n",wonByVote);
        wonByVote=kalai-nandha;
        printf("kalai won by %d votes to nandha\n",wonByVote);
        wonByVote=kalai-param;
        printf("kalai won by %d votes to param\n",wonByVote);
    }
    else if (nandha > param)
    {
        printf("\n***nandha won the election***\n\n");
        printf("Total vote of nandha : %d\n",nandha);
        wonByVote=nandha-kalai;
        printf("nandha won by %d votes to kalai\n",wonByVote);
        wonByVote=nandha-harish;
        printf("nandha won by %d votes to harish\n",wonByVote);
        wonByVote=nandha-param;
        printf("nandha won by %d votes to param\n",wonByVote);
```

```c
        }
        else if(harish == kalai && harish == nandha && harish == param)
        {
            printf("\nNo one won the election\n\n");
            printf("           harish---kalai---nandha---param\n");
            printf("Total Vote   %d      %d      %d    %d\n",harish,kalai,nandha,param);
        }
        else
        {
            printf("\n***param won the election***\n\n");
            printf("Total vote of param : %d\n",param);
            wonByVote=param-kalai;
            printf("param won by %d votes to kalai\n",wonByVote);
            wonByVote=param-nandha;
            printf("param won by %d votes to nandha\n",wonByVote);
            wonByVote=param-harish;
            printf("param won by %d votes to harish\n",wonByVote);
        }
}
void calculateVote(int vote)
{
    switch (vote)
    {
    case 1:
        harish+=1;
        break;
    case 2:
        kalai+=1;
        break;
    case 3:
        nandha+=1;
        break;
    case 4:
        param+=1;
        break;
    }
}
void main()
{
    int choose;


        printf("\n*********Welcome to the simple voting system
```

```c
project*********\n\n");
    printf("                     MP election                    \n\n");

printf("************************************************************************\n");
    printf("|          1.harish          |          2.kalai        |\n");

printf("************************************************************************\n");
    printf("|          3.APP          |          4.param          |\n");

printf("************************************************************************\n\n");
    do
    {
        printf("Press 1 to vote harish(001)\n");
        printf("Press 2 to vote kalai(002)\n");
        printf("Press 3 to vote nandha(003)\n");
        printf("Press 4 to vote param(004)\n");
        printf("Press 5 to show election result\n");
        printf("Please choose : ");
        scanf("%d", &choose);
        if (choose==5)
        {
            electionResult();
        }else
        {
            calculateVote(choose);
        }
        printf("\n");
    } while (choose != 5);
}
```
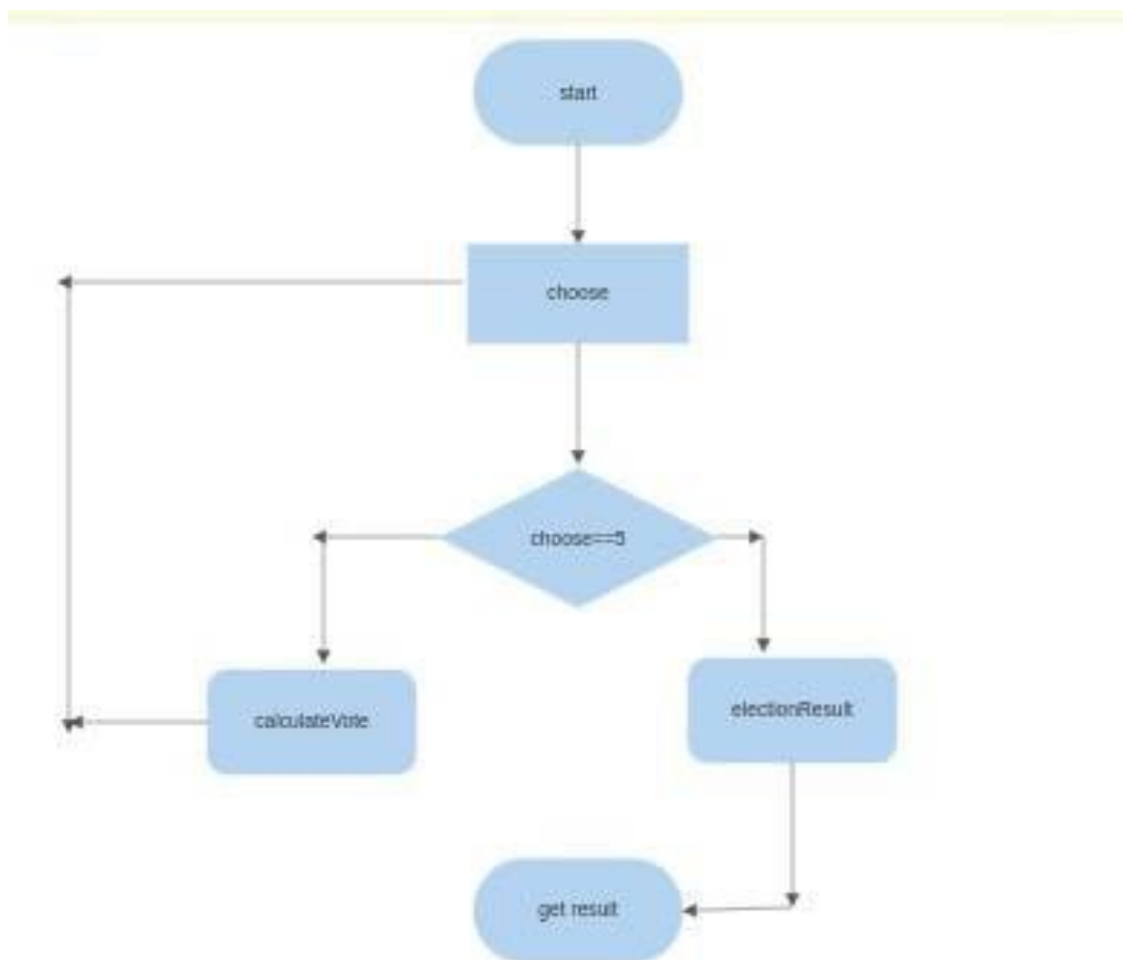
FLOWCHART:

Explanation:

Code Explanation:

Global Variables: The code starts by declaring four global integer variables: harish, kalai, nandha, and param, each initialized to 0. These variables will be used to store the vote counts for four candidates.

Election Result Function: This function is responsible for determining the election result based on the vote counts and displaying the winner and other relevant information. It calculates the difference in votes between each candidate and prints the results accordingly.

Calculate Vote Function: This function takes an integer parameter representing a vote (1 for harish, 2 for kalai, 3 for nandha, 4 for param) and increments the corresponding candidate's vote count.

main Function: The main function serves as the entry point of the program. It displays a menu for a simple voting system and allows users to cast votes or view the election result.

The menu is displayed, and users can choose to vote for a candidate or view the election result by entering a number between 1 and 5.
If the user selects 5, it calls the election Result function to display the election outcome.
If the user selects a number between 1 and 4, it calls the calculate Vote function to update the vote count for the selected candidate.
The menu continues to be displayed until the user chooses option 5 to view the election result.

How the Code Works:

The program starts with a menu that allows users to cast votes for four candidates: harish, kalai, nandha, and param.
Users can vote by entering a number corresponding to their choice, and the vote counts are updated accordingly.
If the user selects option 5 to view the election result, the program calculates and

displays the winner and the number of votes each candidate received.
The program continues running until the user selects option 5 to view the election result, at which point the program exits.

MAIN FUNTION:

In main I have to display the candidate name in the index and i take Four candidate and their voter id.And give the option to the people to vote for the candidate what in their mind.

Thus way I am just give the print statement to print the candidate name and their candidate id.

After that give four option to the people to choose the candidate from their option and also given the fifth option to the voter to show who is win in the election.

Also the calculation of the vote by using the function call in the statement and using the if ,else statement are inside the do,while loop because the iteration become continuous instead of pressing the election result fifth button otherwise the loop became run continuously using the do ,while loop.

If they pressed the fifth pin the loop break and display the election result in the output.

GETTING RESULT:

```
 if (choose==5)
     {
        electionResult();
     }else
     {
        calculateVote(choose);
     }
     printf("\n");
   } while (choose != 5);
```

Also used the if else statement is used to compare the candidate who gets the higher vote in the election. First,compared the first candidate is higher than second

candidate,compare the first candidate is higher than third candidate, compare first candidate is higher than fourth candidate if all the three compare operators are true the first candidate win the election.

FUNCTION CALL:

```c
void electionResult()
{
    int wonByVote;
    if (harish > kalai && harish > nandha && harish > param)
    {
        printf("\n***harish won the election***\n\n");
        printf("Total vote of harish : %d\n",harish);
        wonByVote=harish-kalai;
        printf("harish won by %d votes to kalai\n",wonByVote);
        wonByVote=harish-nandha;
        printf("harish won by %d votes to nandha\n",wonByVote);
        wonByVote=harish-param;
        printf("harish won by %d votes to param\n",wonByVote);
    }
    else if (kalai > nandha && kalai > param)
    {
        printf("\n***kalai won the election***\n\n");
        printf("Total vote of kalai : %d\n",kalai);
        wonByVote=kalai-harish;
        printf("kalai won by %d votes to harish\n",wonByVote);
        wonByVote=kalai-nandha;
        printf("kalai won by %d votes to nandha\n",wonByVote);
        wonByVote=kalai-param;
        printf("kalai won by %d votes to param\n",wonByVote);
    }
    else if (nandha > param)
    {
        printf("\n***nandha won the election***\n\n");
        printf("Total vote of nandha : %d\n",nandha);
        wonByVote=nandha-kalai;
        printf("nandha won by %d votes to kalai\n",wonByVote);
        wonByVote=nandha-harish;
        printf("nandha won by %d votes to harish\n",wonByVote);
        wonByVote=nandha-param;
        printf("nandha won by %d votes to param\n",wonByVote);
```

```
    }
    else if(harish == kalai && harish == nandha && harish == param)
    {
        printf("\nNo one won the election\n\n");
        printf("           harish---kalai---nandha---param\n");
        printf("Total Vote  %d     %d      %d    %d\n",harish,kalai,nandha,param);
    }
    else
    {
        printf("\n***param won the election***\n\n");
        printf("Total vote of param : %d\n",param);
        wonByVote=param-kalai;
        printf("param won by %d votes to kalai\n",wonByVote);
        wonByVote=param-nandha;
        printf("param won by %d votes to nandha\n",wonByVote);
        wonByVote=param-harish;
        printf("param won by %d votes to harish\n",wonByVote);
    }
}
```

Otherwise check the if ,else statement to compared the second candidate is higher than third candidate,compared the second candidate is higher than fourth candidate if both results gets second candidate is gets higher that candidate win the election.

Otherwise check the another iteration compare the third candidate is higher than fourth candidate. If the statement is getting true the fourth candidate win the election.

And display who won the election and how many vote they get in the election also display other candidate name and how many vote they get in the election.

SWITCH CASE AND CALCULATING VOTE:

```
void calculateVote(int vote)
{
   switch (vote)
   {
   case 1:
      harish+=1;
      break;
   case 2:
      kalai+=1;
      break;
   case 3:
      nandha+=1;
      break;
   case 4:
      param+=1;
      break;
   }
}
```

The calculation of the code by using the switch case to calculate the vote in the election and get vote by increasing the vote they got in the election.

OUTPUT:

```
*********Welcome to the simple voting system project*********
                    MP election

***************************************************************
|           1.harish          |          2.kalai          |
***************************************************************
|           3.APP             |          4.param          |
***************************************************************
Press 1 to vote harish
Press 2 to vote kalai
Press 3 to vote nandha
Press 4 to vote param
Press 5 to show election result
Please choose : 1

Press 1 to vote harish
Press 2 to vote kalai
Press 3 to vote nandha
Press 4 to vote param
Press 5 to show election result
Please choose : 1

Press 1 to vote harish
Press 2 to vote kalai
Press 3 to vote nandha
Press 4 to vote param
Press 5 to show election result
Please choose : 5

***harish won the election***

Total vote of harish : 2
harish won by 2 votes to kalai
harish won by 2 votes to nandha
harish won by 2 votes to param
```

CONCLUSION:

This ballotbox lite c program is used to select the candidate easy from the election and give the immediate result to the candidate.