

PROGRAMMING FOR PROGRAM SOLVING ASSIGNMENT – 3

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TITLE: **VOTING SYSTEM**

INTRODUCTION:

Election is a procedure by which people put forward their political opinion and select the worthy political leader by public voting.

Elections are a tool for selecting representatives of the modern democracies.

The leader that has been chosen will have control over people and will take the responsibility of the state and country as well.

To have a neat and clean election the main job comes from voting, any small wrong done in voting can become a severe mistake.

Voting system should be done with the utmost precisely and carefully.

DESCRIPTION ABOUT THE FUNCTIONS USED:

We used 2 functions in this project. They are:

1)PRE-DEFINED FUNCTIONS:

- 1)Printf function used for output.It prints the given statement to the console.
- 2)Scanf function to take input from the user.
- 3)getchar function that reads a single character from user and returns it to the Program.

2)USER-DEFINED FUNCTIONS:

- 1) void castVote – function used to vote by the user to any candidate.
- 2) void votesCount – view the number of votes won by each candidate.
- 3) void getLeadingCandidate – shows which person is leading candidate in Election.

SOURCE CODE:

```
#include<stdio.h>

#define CANDIDATE_COUNT
#define CANDIDATE1 "K.Chandra Shekhar"
#define CANDIDATE2 "K.Pawan kalyan"
#define CANDIDATE3 "N.Chandra Babu"
#define CANDIDATE4 "Y.S.Jagan Reddy"

int votesCount1=0, votesCount2=0, votesCount3=0, votesCount4=0, spoiledtvotes=0;

void castVote()
{
    int choice;
    printf("\n\n ### Please choose your Candidate ####\n\n");
    printf("\n 1. %s", CANDIDATE1);
    printf("\n 2. %s", CANDIDATE2);
    printf("\n 3. %s", CANDIDATE3);
    printf("\n 4. %s", CANDIDATE4);
    printf("\n 5. %s", "None of These");

    printf("\n\n Input your choice (1 - 4) : ");
    scanf("%d",&choice);

    switch(choice)
    {
        case 1: votesCount1++; break;
        case 2: votesCount2++; break;
        case 3: votesCount3++; break;
```

```

        case 4: votesCount4++; break;
        case 5: spoiledtvotes++; break;
        default: printf("\n Error: Wrong Choice !! Please retry");
                //hold the screen
                getchar();
    }
    printf("\n thanks for vote !!");
}

void votesCount()
{
    printf("\n\n ##### Voting Statics #####");
    printf("\n %s - %d ", CANDIDATE1, votesCount1);
    printf("\n %s - %d ", CANDIDATE1, votesCount2);
    printf("\n %s - %d ", CANDIDATE1, votesCount3);
    printf("\n %s - %d ", CANDIDATE1, votesCount4);
    printf("\n %s - %d ", "Spoiled Votes", spoiledtvotes);
}

void getLeadingCandidate()
{
    printf("\n\n ##### Leading Candiate #####\n\n");
    if(votesCount1>votesCount2 && votesCount1>votesCount3 && votesCount1
>votesCount4)

        printf("[%s]",CANDIDATE1);
    else if (votesCount2>votesCount3 && votesCount2>votesCount4 && votesCount2
>votesCount1)

        printf("[%s]",CANDIDATE2);
    else if(votesCount3>votesCount4 && votesCount3>votesCount2 && votesCount3
>votesCount1)

        printf("[%s]",CANDIDATE3);
    else if(votesCount4>votesCount1 && votesCount4>votesCount2 && votesCount4
>votesCount3)

        printf("[%s]",CANDIDATE4);
    else

        printf("----- Warning !!! No-win situation-----");

}

```

```

int main()
{
int i;
int choice;

do
{
printf("\n\n ##### Welcome to Election/Voting 2021 #####");
printf("\n\n 1. Cast the Vote");
printf("\n 2. Find Vote Count");
printf("\n 3. Find leading Candidate");
printf("\n 0. Exit");
printf("\n\n Please enter your choice : ");
scanf("%d", &choice);

switch(choice)
{
case 1: castVote();break;
case 2: votesCount();break;
case 3: getLeadingCandidate();break;
default: printf("\n Error: Invalid Choice");
}
}
while(choice!=0);

//hold the screen
getchar();

return 0;
}


```

TEST CASES:

First the users chooses a number from the given options. The computer generates the required data for voting.

Users can cast votes how many times they want and can view the final votes of each candidate participating in the election.

The data will be summarized and can be viewed by pressing the required option.

 it20051@vasavi:~/lab13

```
##### Welcome to Election/Voting 2021 #####
```

1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit

Please enter your choice : 1

```
### Please choose your Candidate ###
```

1. K.Chandra Shekhar
2. K.Pawan Kalyan
3. N.Chandra Babu
4. Y.S.Jagan Reddy
5. None of These

Input your choice (1 - 4) : 2

thanks for vote !!

```
##### Welcome to Election/Voting 2021 #####
```


1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit

Please enter your choice : 1

```
### Please choose your Candidate ###
```

1. K.Chandra Shekhar
2. K.Pawan Kalyan
3. N.Chandra Babu
4. Y.S.Jagan Reddy
5. None of These

Input your choice (1 - 4) : 2 █

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Input your choice (1 - 4) : 1

thanks for vote !!

Welcome to Election/Voting 2021

1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit

Please enter your choice : 2

Voting Statics

K.Chandra Shekhar - 1
K.Chandra Shekhar - 2
K.Chandra Shekhar - 0
K.Chandra Shekhar - 0
Spoiled Votes - 0

Welcome to Election/Voting 2021

1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit


Please enter your choice : 3

Leading Candiate

[K.Pawan Kalyan]

Welcome to Election/Voting 2021

1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit

Please enter your choice : 

WHAT WE HAVE LEARNT FROM THIS PROJECT :

We learnt how to write a source code for voting system in C language. This also helped us in getting a better command in topics like structures, pointers, arrays and files.

CONCLUSION :-

*We have completed our **VOTING SYSTEM** project successfully .*

FUTURE SCOPE :-

As we know that c is the base programming language which acts as a foundation of all other languages. As this project belongs to c code, we can expect a good scope in the future.