PROJECT TITLE

A MINI PROJECT REPORT

Submitted by

JOESAM DINESH C [RA2111003011485]

SHRINIDHI S [RA2111003011488]

for the course 18CSS101J Programming for Problem Solving

Under the guidance of **Sibi Amaran**
(Assistant Professor, Department of Computing

Technologies) *in partial fulfilment for the award
of the degree of*

BACHELOR OF TECHNOLOGY
in

COMPUTER SCIENCE AND ENGINEERING

of

FACULTY OF ENGINEERING AND TECHNOLOGY

S.R.M. Nagar, Kattankulathur, C h e n g a l p a t t u District

JUNE 2022

ELECTION VOTING SYSTEM

Academic Year: 2021-22 ODD

B-Tech Computer Science AND ENGINEERING

Semester   : 2
Course code   : 18CSS101J
Course Title   : PPS

DONE BY

Joesam Dinesh C – RA2111003011485

Shrinidhi S – RA2111003011488

ALGORITHIM

STEP-1: Define Object-like MACROs with MACRO name "CANDIDATE 1".

☐

STEP-2: Define Object-like MACROs with MACRO name "CANDIDATE 2".

STEP-3: Define Object-like MACROs with MACRO name "CANDIDATE 3". **STEP-☐4:** <u>Define</u> Object-like MACROs with MACRO name "CANDIDATE 4".

STEP 5: SET votesCount1 to 0.

STEP 6: SET votesCount2 to 0.

STEP 7: SET votesCount3 to 0.

STEP 8: SET votesCount4 to 0.

STEP 9: SET spoiledvotes to 0.

STEP 10: FUNCTION castVote

STEP 11: DECLARE VARIABLE choice.

STEP 12: PRINT "### Please choose your Candidate ####"

STEP 13: PRINT "1. (Value of MACRO CANDIDATE1)"

STEP 14: PRINT "2. (Value of MACRO CANDIDATE2)"

STEP 15: PRINT "3. (VALUE OF MACRO CANDIDATE3)"

STEP 16: PRINT "4. (VALUE OF MACRO CANDIDATE4)"

STEP 17: PRINT "5. NONE OF THESE"

STEP 18: PRINT "Input your choice (1-5)"

STEP 19: GET value and assign it to variable choice.

STEP 20: STARTCASE-choice

STEP 21: IF value assigned to choice is 1

STEP ☐22: <u>ADD</u> 1 to votesCount1.

STEP 23: BREAK that is don't go to rest of cases.

STEP 24: IF value assigned to choice is 2.

STEP ☐25: <u>ADD</u> 1 to votesCount2.

STEP 26: BREAK that is don't go to rest of cases.

STEP 27: IF value assigned to choice is 3.

STEP 28: ADD 1 to votesCount3.

STEP 29: BREAK that is don't go to rest of cases.

STEP 30: IF value assigned to choice is 4.

STEP 31: ADD 1 to votesCount4.

STEP 32: BREAK that is don't go to rest of cases.

STEP 33: IF value assigned to choice is 5.

STEP 34: ADD 1 to spoiledvotes.

STEP 35: BREAK that is don't go to rest of cases.

STEP 36: OTHERWISE

STEP 37: PRINT "Error: Wrong Choice!! Please retry" STEP 38: ENDCASE.

STEP 39: CALL FUNCTION getchar to hold the screen.

STEP 40: PRINT "thanks for vote"

STEP 41: FUNCTION votesCount

STEP 42: PRINT "##### Voting Statics ####"

STEP 43: PRINT "(Value of MACRO CANDIDATE1)-(Value of votesCount1)"

STEP 44: PRINT "(Value of MACRO CANDIDATE2)-(Value of votesCount2)"

STEP 45: PRINT "(Value of MACRO CANDIDATE3)-(Value of votesCount3)"

STEP 46: PRINT "(Value of MACRO CANDIDATE4)-(Value of votesCount4)"

STEP 47: PRINT "(Spoiled Votes) - (Value of spoiledvotes)"

STEP 48: FUNCTION getLeadingCandidate

STEP 49: PRINT "#### Leading Candidate ####"

STEP 50: IF value of votesCount1 is more than values of votesCount2, votesCount3, votesCount4

STEP 51: PRINT "(Value of CANDIDATE1)"

STEP 52: IF value of votesCount2 is more than values of votesCount1,

votesCount3, votesCount4

STEP 53: PRINT "(Value of CANDIDATE2)"

STEP 54: IF value of votesCount3 is more than values of votesCount2, votesCount1, votesCount4

STEP 55: PRINT "(Value of CANDIDATE3)"

STEP 56: IF value of votesCount4 is more than values of votesCount2, votesCount3, votesCount1

STEP 57: PRINT "(Value of CANDIDATE4)"

STEP 58: ELSE

STEP 59: PRINT ("----- Warning!!! No-win situation --- ")

STEP 60: START

STEP 61: DECLARE

VARIABLE i STEP 62: DECLARE VARIABLE choice

STEP 63: DO LOOP Starts

STEP 64: PRINT "###### Welcome to Election/Voting 2023 #####"

STEP 65: PRINT "1. Cast the Vote"

STEP 66: PRINT "2. Find Vote Count"

STEP 67: PRINT "3. Find leading Candidate"

STEP 68: PRINT "0. EXIT"

STEP 69: PRINT "Please enter your choice:"

STEP 70: GET value and assign it to VARIABLE choice

STEP 71: STARTCASE- choice

STEP 72: IF value assigned to choice is 1

STEP 73: CALLING FUNCTION castVote

STEP 74: BREAK that is don't go to rest of cases.

STEP 75: IF value assigned to choice is 2

STEP 75: CALLING FUNCTION votesCount

STEP 76: BREAK that is don't go to rest of cases.

STEP 77: IF value assigned to choice is 3

STEP 77: CALLING FUNCTION getLeadingCandidate STEP 78: BREAK that is don't go to rest of cases.

STEP 79: OTHERWISE

STEP 80: PRINT "Error: Invalid Choice" STEP 81: ENDCASE.

STEP 82: [DO---] WHILE choice is not 0

STEP 83: CALL getchar to hold the screen

STEP 84: END

SOURCE CODE

```c
#include <stdio.h>

#define CANDIDATE_COUNT
```

```c
#define CANDIDATE1 "AA
#define CANDIDATE2 "BB"
#define CANDIDATE3 "CC"
#define CANDIDATE4 "DD"


int     votesCount1=0,     votesCount2=0,     votesCount3=0,
votesCount4=0, nota=0, spoiledvotes;


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: nota++;
  break; default:
```

```c
  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 ", CANDIDATE2,
votesCount2);
printf("\n %s - %d ", CANDIDATE3,
votesCount3);
 printf("\n %s - %d ", CANDIDATE4,
votesCount4);
printf("\n  %s  -  %d  ",  "nota",
spoiledtvotes);
}
  void getLeadingCandidate(){
    printf("\n\n #### Leading
    Candidate ####\n\n");
    if(votesCount1>votesCount2 && votesCount1>votesCount3
    &&
```

```c
   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()
{
i
n
t
i;
int choice;
```

```c
do{
printf("\n\n ###### Welcome to
Election/Voting 2019 #####");
 printf("\n\n 1. Cast the Vote");
printf("\n 2. Find Vote Count");
printf("\n 3. Find leading Candidate");
printf("\n 4. Exit");

printf("\n\n Please enter your choice :
"); scanf("%d", &choice);

switch(choice)
{
case 1: castVote();break;
case 2:
votesCount();break;
 case 3:
getLeadingCandidate();br
eak;
default: printf("\n Thanks for Voting");
}

   }while(choice!=0);
```

```c
//hold the screen
getchar();

return 0;
}
```

OUTPUT

1. Main screen:

```
######## WELCOME TO ELECTION VOTING 2022 #########


1.cast the vote
2.Find vote count
3.Find leading candidate
4.Exit
```

2. After Cast the Vote:

```
please enter your choice

1.AA
2.BB
3 CC
4 DD
5 None of these


Input your choice (1-4): 2
Thanks for voting!!
```

3. Input your choice:

```
Input your choice (1-4): 2
Thanks for voting!!
```

4. Find vote count:

```
        ######## VOTING STATISTICS ######

1 AA              0
2 BB              1
3 CC              0
4 DD              0
5 NONE OF THESE  0
```
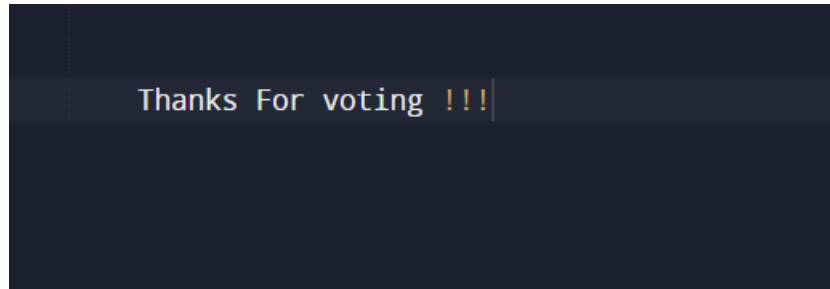
5. Leading Candiate:

```
    PLEASE ENTER YOUR CHOICE : 2
    (BB)

    ###LEADING CANDIDATE###
```

6. Exit:

```
Thanks For voting !!!
```

RESULT

THIS project provides an easy way for caste their votes. With this Voting System we can give a user a safe and good Voting environment without any scam in count of vote.