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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ELECTION OF CANDIDATES

Submitted by

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Submission Date:**08/08/2022**

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Summary

A project on the election of candidates in the C programming language focuses on implementing a system that manages the election process efficiently. The project involves designing data structures and algorithms to store and manipulate candidate information, voter data, and election results. In this project, the C programming language offers a robust platform for developing the necessary functionalities, including candidate registration, voter registration, vote casting, and result calculation. The project also aims to incorporate features such as candidate profiles, voter authentication, and real-time result updates. By utilizing C's powerful features, such as its strong memory management and low-level access to hardware, the project ensures a secure and reliable election process.

Screen Shots

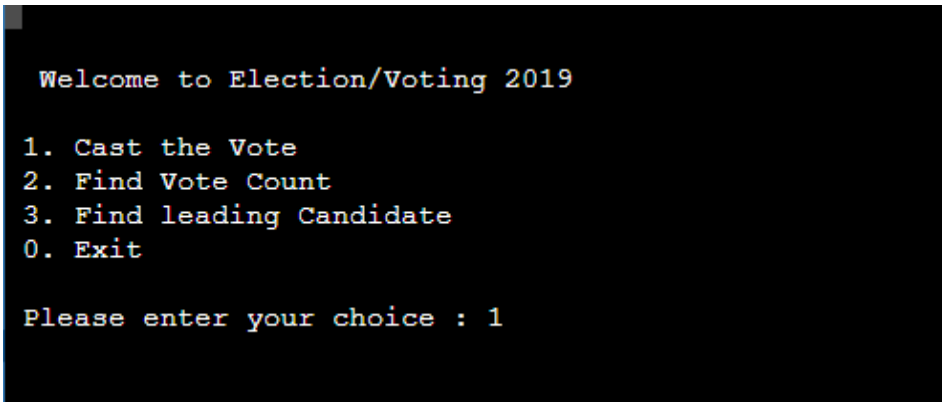

Figure 1

While executing the code ,the output is shown as above in figure 1

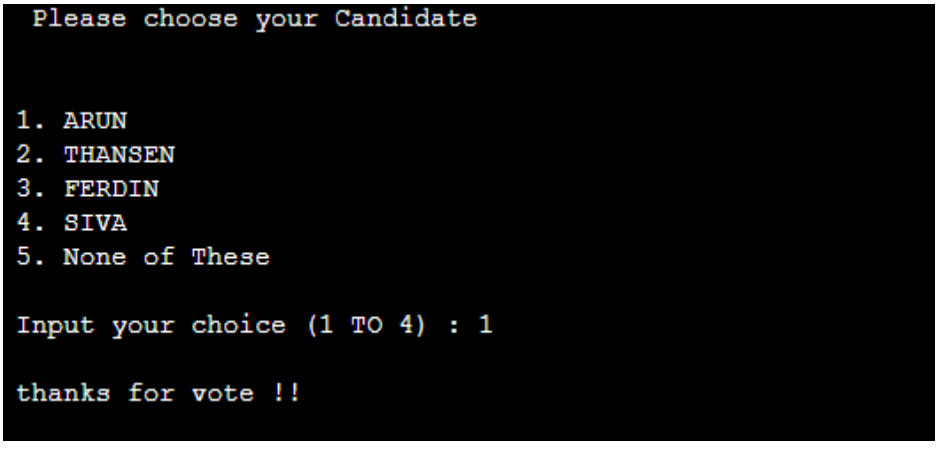

Figure 2

If the switch case option has be given as 1 then the vote will be taken according to 1 to 4 as shown in Figure 2.

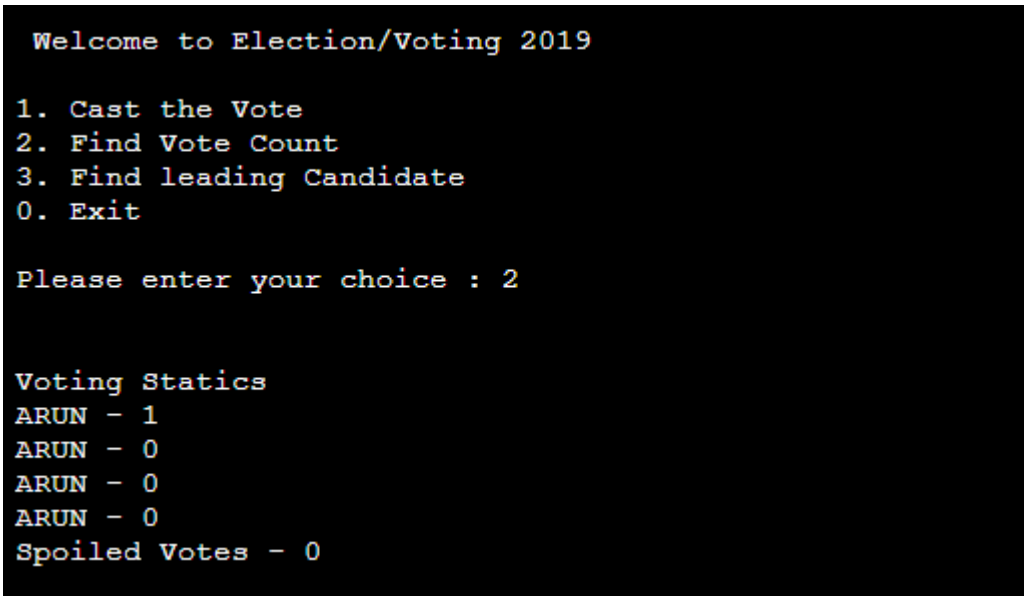

Figure 3

If the choice of enter has given as 2 then it will show the vote count as shown in Figure 3.

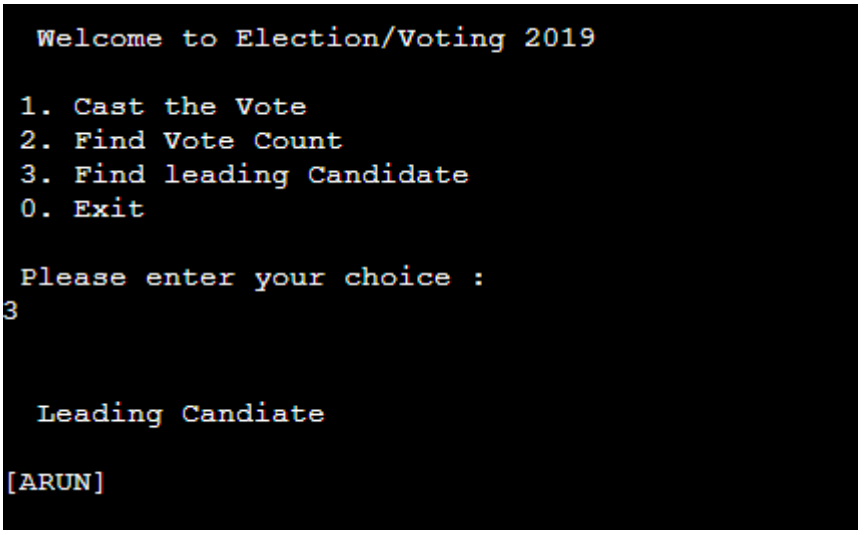

Figure 4

Finally,after counting the number of votes the leading candidate will be shown as Figure 4.

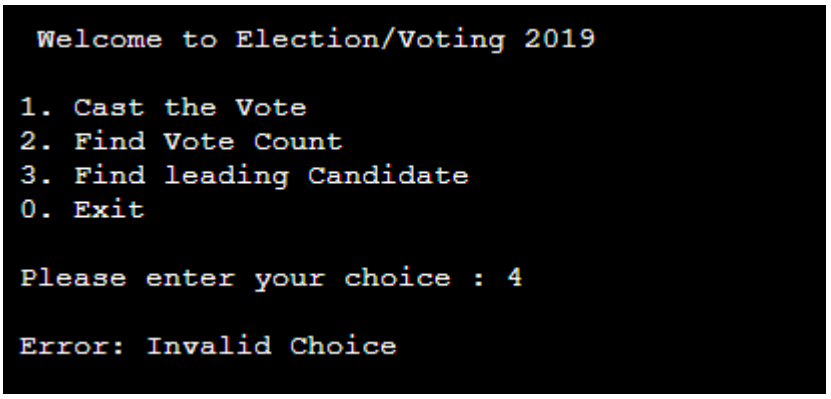

Figure 5

Finally,the program exits when the user types "exit".

Source Code

```
#include<stdio.h>
#define CANDIDATE_COUNT
#define CANDIDATE1 "ARUN"
#define CANDIDATE2 "THANSEN"
#define CANDIDATE3 "FERDIN"
#define CANDIDATE4 "SIVA"
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 TO 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");
```

```
    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 2019 ");
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);
getchar();
return 0;
}
```