Programming for Problem Solving

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Aim:

To create a project on election to cast vote to the candidates mentioned in

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the list.
Source Code:
#include<stdio.h>
#define CANDIDATE COUNT
#define CANDIDATE1 "Nithish"
#define CANDIDATE2 "Aryan Dev"
#define CANDIDATE3 "Sreelekshmy"
#define CANDIDATE4 "Sai"
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 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 ", CANDIDATE2, votesCount2);
printf("\n %s - %d ", CANDIDATE3, votesCount3);
printf("\n %s - %d ", CANDIDATE4, 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);
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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 2022 #####");
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;
}
```

Output:

```
###### Welcome to Election/Voting 2022 #####

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

Please enter your choice : 1
### Please choose your Candidate ####

1. Nihtish
2. Aryan Dev
3. Sreelekshmy
4. Sai
5. None of These

Input your choice (1 - 4) : 1
thanks for vote !!
```

```
###### Welcome to Election/Voting 2022 #####
 1. Cast the Vote
2. Find Vote Count
3. Find leading Candidate
0. Exit
Please enter your choice : 2
 ##### Voting Statics ####
Nihtish - 1
 Aryan Dev - 0
 Sreelekshmy - 0
 Sai - 0
 Spoiled Votes - 0
 ###### Welcome to Election/Voting 2022 #####
 1. Cast the Vote
 2. Find Vote Count
 3. Find leading Candidate
 0. Exit
 Please enter your choice : 3
 #### Leading Candiate ####
[Nihtish]
###### Welcome to Election/Voting 2022 #####
 1. Cast the Vote
 2. Find Vote Count
3. Find leading Candidate
 0. Exit
Please enter your choice : 0
Error: Invalid Choice
```