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ECE(CYBER PHYSICAL SYSTEM)
SECTION-F

VOTING AND COUNTING SYSTEM (CODE)

```c
#include <stdio.h>
#define CANDIDATE_COUNT
#define CANDIDATE1 "BJP"
#define CANDIDATE2 "AAP"
 #define CANDIDATE3 "INC"
#define CANDIDATE4 "BSP"
 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;
```

```c
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 Candidate ####\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()
```

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{
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; }
```