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**SECTION: V1**

**SOURCE CODE**

|  |
| --- |
| **#include<stdio.h>** |
|  |  |
|  | **#define CANDIDATE\_COUNT** |
|  |  |
|  | **#define CANDIDATE1 "Rohan"** |
|  | **#define CANDIDATE2 "Shrundan"** |
|  | **#define CANDIDATE3 "RAKESH"** |
|  | **#define CANDIDATE4 "Mohith"** |
|  |  |
|  | int votesCount1=0, votesCount2=0, votesCount3=0, votesCount4=0, nota=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 - 5) : "); |
|  | 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: 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", nota); |
|  | } |
|  |  |
|  | 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 2023 #####"); |
|  | 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();break; |
|  |  |
|  | } |
|  | }while(choice!=0); |
|  |  |
|  | //hold the screen |
|  | getchar(); |
|  |  |
|  | return 0; |
|  | } |