#include<stdio.h>

const int n=4;

struct representative

{

char name[10];

int candidate\_no;

};

int vote\_Count1,vote\_Count2,vote\_Count3,vote\_Count4,x,c=1;

void getdetails(struct representative []);

void printdetails(struct representative [] );

void candidate\_in\_lead(struct representative [],int );

void cast\_vote(struct representative []);

int counting\_vote();

void voting\_static(struct representative []);

int main()

{

struct representative r[n];

int choice;

printf("----------Fetching the details of the candidates---------");

getdetails(r);

while(c==1)

{

printf("####WELCOME TO THE CR VOTING SYSTEM####");

printf("\n1.TO CAST YOUR VOTE");

printf("\n2.TO SEE THE CANDIDATE IN LEAD");

printf("\n3.TO DISPLAY THE VOTING STATIC");

printf("\nEnter your choice for above options:");

scanf("%d",&choice);

switch(choice)

{

case 1:

cast\_vote(r);

x=counting\_vote();

printf("Thanks for voting\n");

break;

case 2:

candidate\_in\_lead(r,x);

break;

case 3:

voting\_static(r);

break;

default :

printf("!!!!!Wrong Choice!!!!!");

}

printf("do You want to continue press 1 for yes :");

scanf("%d",&c);

}

}

void getdetails(struct representative info[n])

{

int i;

for(i=0;i<n;i++)

{

printf("\nEnter the details of %d candidate:",i+1);

printf("\nName :");

scanf("%s",info[i].name);

printf("Canditate symbol number :");

scanf("%d",&info[i].candidate\_no);

}

}

void printdetails(struct representative info[n])

{

int i;

for(i=0;i<n;i++)

{

printf("%d: ",i+1);

printf("Name :%s",info[i].name);

printf("\n");

printf("Canditate symbol number :%d",info[i].candidate\_no);

printf("\n");

}

}

void cast\_vote(struct representative info[n])

{

int choice,i;

printf("######### WELCOME TO THE VOTING SESSION ##########\n\n");

printf(" Please chooose your Candidate ");

printf("\n--------------------------------------------------------------\n");

printf("Displaying The details of all the candidates\n");

printdetails(info);

for(i=0;i<10;i++)

{

printf("Enter your choice please for next vote:");

scanf("%d",&choice);

switch (choice)

{

case 1:

vote\_Count1++;

break;

case 2:

vote\_Count2++;

break;

case 3:

vote\_Count3++;

break;

case 4:

vote\_Count4++;

break;

default:

printf(" \n Error: Wrong Choice !! Please retry");

}

}

}

int counting\_vote()

{

if(vote\_Count1 > vote\_Count2 && vote\_Count1 > vote\_Count3 && vote\_Count1 > vote\_Count4)

{

return 1;

}

else if(vote\_Count2 > vote\_Count1 && vote\_Count2 > vote\_Count3 && vote\_Count2 > vote\_Count4)

{

return 2;

}

else if(vote\_Count3 > vote\_Count2 && vote\_Count3 > vote\_Count1 && vote\_Count3 > vote\_Count4)

{

return 3;

}

else if(vote\_Count4 > vote\_Count2 && vote\_Count4> vote\_Count3 && vote\_Count4 > vote\_Count1)

{

return 4;

}

else

printf("!!!!!!!!!!!!!!! NO WIN-WIN SITUATION !!!!!!!!!!!!!!!!!");

}

void candidate\_in\_lead(struct representative info[n],int y )

{

int i;

printf("The Leading Candidate is :%s",info[y-1].name);

printf("\n");

}

void voting\_static(struct representative info[n])

{

printf("!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!VOTING STATIC!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!");

printf("\nThe candidate with symbol number %d: and name: %s has: %d number of votes",info[0].candidate\_no,info[0].name,vote\_Count1);

printf("\n");

printf("The candidate with symbol number %d: and name: %s has: %d number of votes",info[1].candidate\_no,info[1].name,vote\_Count2);

printf("\n");

printf("The candidate with symbol number %d: and name: %s has: %d number of votes",info[2].candidate\_no,info[2].name,vote\_Count3);

printf("\n");

printf("The candidate with symbol number %d: and name: %s has: %d number of votes",info[3].candidate\_no,info[3].name,vote\_Count4);

printf("\n");

}