Programming for Problem Solving (PPS)

MINI Project

Topic : Voting Details

Department : ECE - Data Science Specialization

Section : I

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**Our AIM :**

To cast the votes , display the leading candidates and count the votes.

**CODE :**

#include<stdio.h>

#define CANDIDATE\_COUNT

#define CANDIDATE1 "DAVID"

#define CANDIDATE2 "JAMES"

#define CANDIDATE3 "MAVERICK"

#define CANDIDATE4 "NOAH"

int votesCount1 = 0, votesCount2 = 0, votesCount3 = 0, votesCount4 =

0, spoiledtvotes = 0;

void

castVote ()

{

int choice;

printf ("\n\nPlease 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;

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\nVoting 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);

else if (votesCount4 > votesCount1 && votesCount4 > votesCount2

&& votesCount4 > votesCount3)

printf ("[%s]", CANDIDATE4);

else

printf (" 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);

getchar ();

return 0;

}