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#include <stdio.h>

#define CANDIDATE_COUNT

#define CANDIDATE1 "David Hull"
#define CANDIDATE2 "Kristin Canella"
#define CANDIDATE3 "Jim Brar"
#define CANDIDATE4 "Donald Truimph"

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 - 5) : ");
    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 #####");
}

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    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() {
    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:

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        printf("\n Error: Invalid Choice");
    }
} while (choice != 0);

// hold the screen
getchar();

return 0;
}
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