



Green University of Bangladesh
Department of Computer Science and Engineering(CSE)
Faculty of Sciences and Engineering
Semester: (Summer, Year:2022), B.Sc. in CSE (Day)

LAB Project
Course Title: Structured Programming lab
Course Code: CSE 104 **Section:** DD

Project Name: Voting System by using C language.

Student Details

Name	ID
Maruf Hossain	221902318

Course Teacher's Name : Md. Parvez Hossain

[For Teachers use only: Don't Write Anything inside this box]

<u>Lab Report Status</u>	
Marks:	Signature:
Comments:	Date:

- **Introduction:**

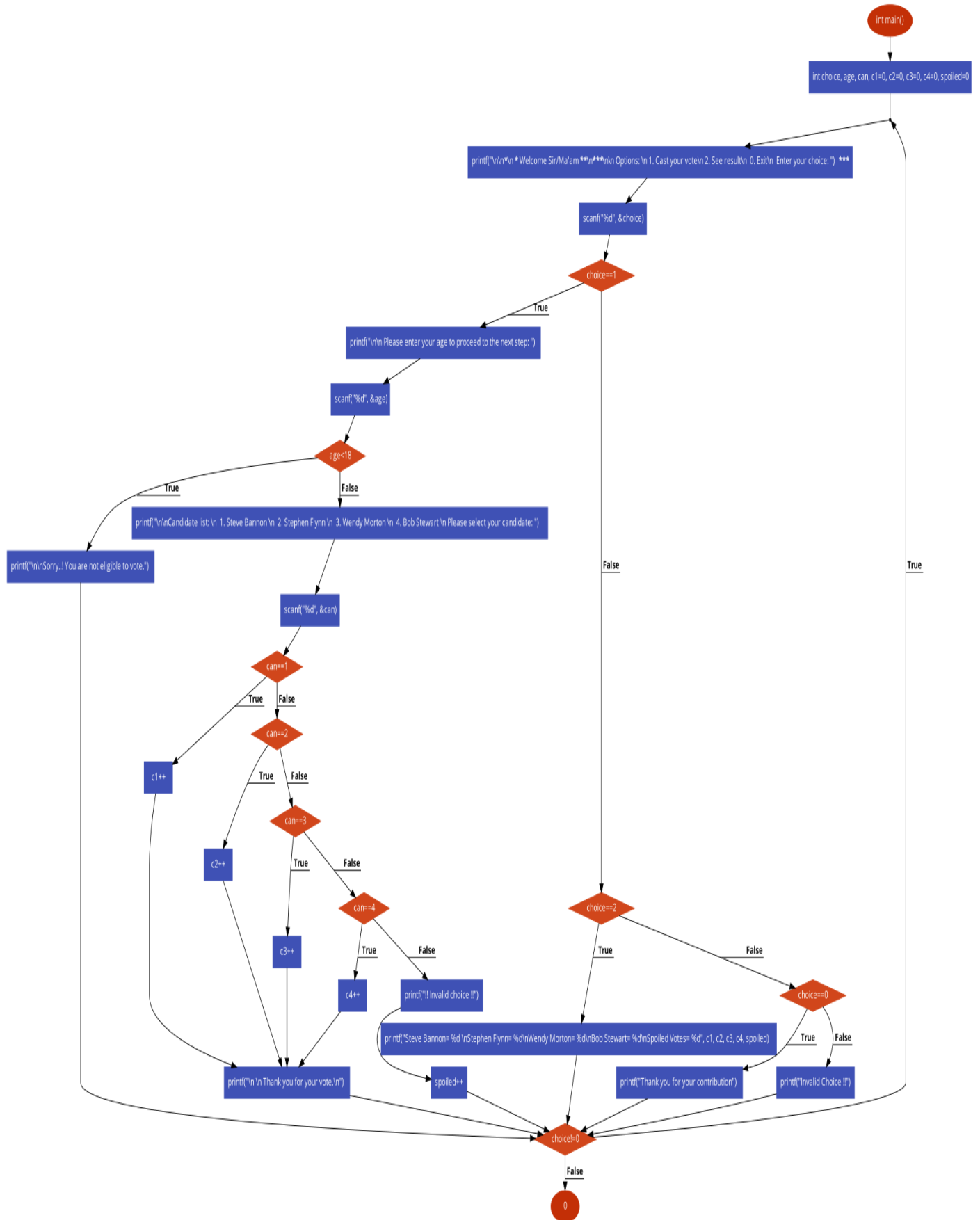
Voting is a method by which we choose leader among a number of people. It is often found in democracies and republics. We also use this process to elect class captain, sports team captain etc.

There are many types of voting process such as biometric voting, paper-based voting, electric voting etc. Here, a mini electronic voting system is presented by which we can select a winner/leader among a number of people by casting votes. In this project, we make a voting machine in which we have 3 different option to vote. Each user vote one time and after all the user gives their vote, we will conclude the result and store in our file and we have a full-fledged file in which we store a list of winners.

- **Goals/Objective:**

1. Only eligible (18 or 18+) can vote.
2. It can replace the old paper-based way of voting.
3. It can cast vote and show the result.
4. It can be used in school or colleges to elect class captain.

- **Flow Chart:**



- **C source code:**

```
#include<stdio.h>
int main()
{
    int choice, age, can, c1=0, c2=0, c3=0, c4=0, spoiled=0;
    do
    {
        printf("\n\n*****\n ***** Welcome
Sir/Ma'am *****\n*****\n\n Options: \n
1. Cast your vote\n 2. See result\n 0. Exit\n Enter your choice: ");
        scanf("%d", &choice);
        if (choice==1)
        {
            printf("\n\n Please enter your age to proceed to the next step: ");
            scanf("%d", &age);
            if (age<18)
            {
                printf("\n\nSorry..! You are not eligible to vote.");
            }
            else{
                printf("\n\nCandidate list: \n 1. Steve Bannon \n 2. Stephen Flynn
\n 3. Wendy Morton \n 4. Bob Stewart \n Please select your candidate: ");
                scanf("%d", &can);
                if (can==1)
                {
                    c1++;
                    printf("\n \n Thank you for your vote.\n");
                }
                else if (can==2)
                {
                    c2++;
                    printf("\n \n Thank you for your vote.\n");
                }
                else if (can==3)
                {
                    c3++;
                    printf("\n \n Thank you for your vote.\n");
                }
                else if (can==4)
                {
```

```

        c4++;
        printf("\n \n Thank you for your vote.\n");
    }
    else
    {
        printf("!! Invalid choice !!");
        spoiled++;
    }

    }
}
else if (choice==2)
{
    printf("Steve Bannon= %d \nStephen Flynn= %d\nWendy Morton= %d\nBob
Stewart= %d\nSpoiled Votes= %d", c1, c2, c3, c4, spoiled);
}
else if (choice==0)
{
    printf("Thank you for your contribution");
}

else
{
    printf("Invalid Choice !!");
}

} while (choice!=0);

return 0;
}

```

- **Screenshots:**

```
"F:\CSE-GUB\2nd Semester\CSE 104 (Struc. prog. Lab)\Pro

*****
***** Welcome Sir/Ma'am *****
*****

Options:
1. Cast your vote
2. See result
0. Exit
Enter your choice:
```

At first it shows a welcome message and get input from the user according to their chosen option.

```
Enter your choice: 1

Please enter your age to proceed to the next step: 17

Sorry..! You are not eligible to vote.

*****
***** Welcome Sir/Ma'am *****
*****
```

If the user has chosen option 1: “cast your vote”, then the system want the user’s age to check if he is eligible for vote or not. If he/she is below 18 then it shows a “not eligible” message

```
Please enter your age to proceed to the next step: 22

Candidate list:
1. Steve Bannon
2. Stephen Flynn
3. Wendy Morton
4. Bob Stewart
Please select your candidate:
```

If the user is 18 or above then the system shows the candidates list from which the user can choose only one. If the user gives an input which is not in the option then his/her vote will be counted as a spoiled vote.

```
4. BOB Stewart
Please select your candidate: 1

Thank you for your vote.

*****
***** Welcome Sir/Ma'am *****
*****

Options:
1. Cast your vote
2. See result
0. Exit
Enter your choice:
```

Once the user is finished casting his vote, the system shows a “Thank you” message and the interface gets back to its initial phase so that other users can cast their vote as the same way.

```
Options:
1. Cast your vote
2. See result
0. Exit
Enter your choice: 2
Steve Bannon= 1
Stephen Flynn= 2
Wendy Morton= 2
Bob Stewart= 3
Spoiled Votes= 1
```

After casting all the votes, the result can easily be showed by choosing the option “See result”. The option shows candidates name and the number of votes they’ve got.

```
Options:
1. Cast your vote
2. See result
0. Exit
Enter your choice: 0
Thank you for your contribution
```

After we're done, we can simply choose the exit option to end the process.

Advantages:

1. Less manpower required
2. Time conscious, as less time required for voting & counting
3. Convenient on the part of voter
4. Avoids invalid voting

• Conclusion:

In correlation to the research all of the objectives and goals of the voting areas has been achieved positively. This E-voting system has the ability to reduce fraud attempts and eliminate errors in votes counting. In addition to its scalability this system can handle various techniques and provide enhanced efficiency and reliability for the elections. This E-voting system is evaluated and implemented successfully. The final result of the voting system was amazingly computable and significant with other voting system.

With this Voting System we can give a user a safe and good Voting environment without any scam in count of vote.