

## ASSIGNMENT 1

NAME : SNEHA HIREMATH

USN : 2GI23CS144

**PROBLEM STATEMENT:** Google Form: Survey

### STEPS:

#### 1. Sign in to Google

- Go to [Google Forms](#).
- Sign in with your Google account.

#### 2. Start a New Form

- Click on the Blank form icon to start from scratch, or choose a template from the template gallery.

#### 3. Title and Description

- Enter a title for your survey at the top.
- Add a description if needed to explain the purpose of the survey.

#### 4. Add Questions

- Click on the Untitled Question field to type your first question.
- Select the question type from the dropdown menu (e.g., multiple choice, checkbox, short answer).
- Fill in answer options if applicable.

#### 5. Customize Questions

- Use the icons on the right to:
  - Duplicate a question.
  - Delete a question.
  - Add a new question.
- Toggle the required question option if necessary.

#### 6. Customize Form Settings

- Click on the Settings gear icon in the top right corner.
- Adjust settings for responses, such as collecting email addresses, limiting responses, or allowing respondents to edit their answers.

#### 7. Theme and Design

- Click on the Palette icon to customize the theme and colors of your form.
- You can also add images or videos to enhance your survey.

#### 8. Preview Your Form

- Click the Preview icon (eye icon) in the top right to see how your form will look to respondents.

#### 9. Send Your Survey

- Click the Send button in the top right corner.
- Choose how you want to share your survey: via email, link, or embed it on a website.

#### 10. Collect and Analyze Responses

- After distributing your form, you can monitor responses in the Responses tab of your form.
- You can view summary charts or individual responses, and export data to Google Sheets for further analysis.

## A. Create Survey Form on: Most programs watched (TV, Movies, Youtube videos, OTT, I don't watch anything)

### OUTPUT:

Survey on most programs watched (Responses)						
File Edit View Insert Format Data Tools Extensions Help						
75% 123 Roboto 10 B I						
Timestamp						
Form_Responses1	Email Address	Score	Name	USN	Which platform do you use mo	
1	9/20/2024 14:37:29		swati hiremath	20I23cs144	Youtube	
3	10/3/2024 17:06:49	23u0306@students.gti.e	Khushi	20I23EC066	Movies	
4	10/3/2024 17:16:51	sangushashi@gmail.cc	Sangamesh K	22ETCS002172	Movies	
5	10/3/2024 17:21:54	23u2563@students.gti.e	Ishwari R Shatagar	20I23EC058	TV	
6	10/3/2024 17:26:15	hanamapure@gmail.co	Akshata Hanamapure	2AG23AD004	Youtube	
7	10/3/2024 17:28:29	23u0030@students.gti.e	Guddad Rukmini Mahen	20I23CS051	Youtube	
8	10/3/2024 17:40:01	danammaghiremath@gr	Rashmi hiremath	20I24CS001	Youtube	
9	10/3/2024 17:54:34	23u0469@students.gti.e	Bhavana	20I23EC032	Youtube	
10	10/3/2024 17:56:26	23u0764@students.gti.e	Sangeeta H Ganiger	20I23CS121	Movies	
11	10/3/2024 18:01:41	23u0180@students.gti.e	Danamma Navhi	20I23EC041	Youtube	
12	10/3/2024 18:17:06	guruvinradhikav@gmail.	R V Guruvine		Youtube	
13	10/3/2024 18:18:16	vaishalihawaldar@gma	Vaishnavi hawaldar	2KD23EC056	Youtube	
14	10/3/2024 18:21:16	23u0221@students.gti.e	Iramma Shivappa Wadde	20I23EC055	Movies	
15	10/3/2024 18:21:37	01fe23bme156@kietech	Sneha naik	01fe23bme156	Youtube	
16	10/3/2024 18:38:11	premaawati2345@gma	Prema	01fe23bc038	Youtube	
17	10/3/2024 18:38:37	muralidharpatkar37@gm	Muralidhar C Pattar	20I24EC002	Movies	
18	10/3/2024 18:40:27	23u0495@students.gti.e	Nihal Samaj	20I23EC087	Youtube	
19	10/3/2024 18:40:42	jayanisanga@gmail.com	jayani sanga	pes2ug23cs238	TV	
20	10/3/2024 18:50:07	23u0894@students.gti.e	Sneha karaning	20I23AE058	TV	

## B. Create Survey Form on: Most Social Media used (Facebook, Instagram, Snapchat , Twitter, Printnerst)

### OUTPUT:

Survey Form On Most Used Social Media (Responses)						
File Edit View Insert Format Data Tools Extensions Help						
75% 123 Roboto 10 B I A						
Timestamp						
Form_Responses1	Email Address	Name	USN	Which Social Media Platform do you watch it	How Many Hours Do You Spend In Social Mea	
20	10/3/2024 18:42:42	jayanisanga@gmail.com	jayani sanga	pes2ug23cs238	Instagram	1-2 hour
21	10/3/2024 18:51:27	23u0894@students.gti.e	Sneha karening	20I23AE058	Instagram	Morethan 2 hours
22	10/3/2024 18:55:56	ambikaashatagar694@gr	Ambika shatagar	1MV23EC005	Instagram	<1 hour
23	10/3/2024 19:14:31	23u0837@students.gti.e	Shreya kamalakr	20I23AE050	Instagram	Morethan 2 hours
24	10/3/2024 19:19:12	23u0837@students.gti.e	Shreya kamalakr	20I23AE050	Instagram	Morethan 2 hours
25	10/3/2024 19:20:36	praveenhiremath2345@	Praveen hiremath	20I23I0003	Snapchat	Morethan 2 hours
26	10/3/2024 19:30:47	23u0358@students.gti.e	Swati Angadi	20I23CS189	Facebook	<1 hour
27	10/3/2024 19:35:41	sandeepkalahal@gmail.i	Sandeep	20I23I0024	Instagram	Morethan 2 hours
28	10/3/2024 19:45:58	vinayekc4@gmail.com	Vinayek	20I23I0025	Instagram	Morethan 2 hours
29	10/3/2024 19:57:28	23u0417@students.gti.e	Prem	20I23EC108	Instagram	Morethan 2 hours
30	10/3/2024 20:24:52	23u0754@students.gti.e	Spoorti H	20I23EC155	Instagram	1-2 hour
31	10/3/2024 21:17:57	rameshgottel1234@gru	Danamma Gothe	4B023AI023	Instagram	1-2 hour
32	10/3/2024 21:34:09	saba.mul Gund@gmail.co	Saba Mulgund	4B023AI074	Instagram	1-2 hour
33	10/3/2024 21:34:44	prityec262@gmail.com	Pritya CR	4B023AI070	Instagram	Morethan 2 hours
34	10/3/2024 23:07:03	23u0601@students.gti.e	Smitha Meti	20I23CS143	Instagram	Morethan 2 hours

C. Create Survey Form on: Most liked technologies (Python, Java, Web, Animation, I don't like new technologies)

OUTPUT:

Survey Form On Most Liked Technologies (Responses)

File Edit View Insert Format Data Tools Extensions Help

75%

\$ % .0 .00 123

Roboto

10

B I

A

A1	Timestamp						
	A	B	C	D	E	F	G
	Form_Responses1						
1	Timestamp	Name	USN	Which Technology do you like most?			
20	10/3/2024 18:41:32	jayani sanga	pes2ug23cs238	Python			
21	10/3/2024 18:50:53	Sneha karaning	2GI23AE058	Python			
22	10/3/2024 18:54:55	Ambika shatagar	1MV23EE005	Animation			
23	10/3/2024 19:15:44	Shreya kamalakar	2GI23AE050	Python			
24	10/3/2024 19:20:17	Praveen hiremath	2GI23IS003	Java			
25	10/3/2024 19:30:05	Swati Angadi	2GI23CS159	Python			
26	10/3/2024 19:34:35	Sandeep	2GI23IS024	Web			
27	10/3/2024 19:45:01	Vinayak	2GI23IS025	Web			
28	10/3/2024 19:56:54	Prem	2GI23EC108	Python			
29	10/3/2024 20:25:16	Spoorti H	2GI23EC155	Animation			
30	10/3/2024 21:17:21	Danamma Gothe	4BD23AI023	Animation			
31	10/3/2024 21:33:39	Saba Mulgund	4BD23AI074	Python			
32	10/3/2024 21:33:47	Priya CR	4BD23AI070	Python			
33	10/3/2024 23:06:29	Smitha Meti	2GI23CS143	Python			

## ASSIGNMENT 2

NAME : SNEHA HIEMATH

USN : 2GI23CS144

**PROBLEM STATEMENT:** QUIZ : One great way to learn material is to create a test or quiz over the content. Have students use Google Forms to create their own multiple-choice, True/False, fill-in-the-blank, or quizzes on the content they are learning.

### STEPS:

#### Step 1: Access Google Forms

1. Go to Google Forms: Visit [forms.google.com](https://forms.google.com).
2. Sign In: If you aren't already signed in, log in with your Google account.

#### Step 2: Start a New Quiz

1. Create a New Form: Click on the blank form icon or select a template.
2. Turn on Quiz Mode: Click on the settings gear icon in the top right corner.
  - o Navigate to the Quizzes tab.
  - o Toggle on Make this a quiz.

#### Step 3: Set Up Quiz Settings

1. Choose Quiz Options: Decide if you want to release grades immediately or later, and if respondents can see missed questions, correct answers, and point values.
2. Save your settings.

#### Step 4: Add Questions

1. Add Questions: Click on the "+" icon to add a new question.
2. Select Question Type: Choose from multiple-choice, checkboxes, dropdowns, short answer, etc.
3. Enter Your Question: Type in your question and provide answer options (if applicable).

#### Step 5: Mark Correct Answers

1. Answer Key: After entering your question, click on Answer Key.
2. Select Correct Answer: Choose the correct answer(s) and assign point values.
3. Add Feedback (optional): You can provide feedback for correct and incorrect answers.

#### Step 6: Customize Your Quiz

1. Title and Description: Add a title and description for your quiz at the top.
2. Theme and Design: Click on the palette icon to customize the theme, colors, and fonts.

#### Step 7: Preview Your Quiz

1. Preview: Click on the eye icon to see how your quiz will look to respondents.

2. Test Your Quiz: Go through the quiz to ensure everything works as intended.

#### Step 8: Share Your Quiz

1. Send: Click on the “Send” button in the top right.
2. Share Options: You can share via email, link, or embed it on a website. Adjust the sharing settings as needed.

#### Step 9: Collect Responses

1. View Responses: As responses come in, click on the Responses tab to see the results.
2. Export Data: You can link responses to a Google Sheets document for more detailed analysis.

#### Step 10: Review and Grade Responses

1. Review Individual Responses: Check each response for grading if you’re not using automatic grading.
2. Provide Feedback: Optionally, send individualized feedback or grades to respondents.

A. Create a quiz on : Indian history

OUTPUT:

Copy of Quiz On Indian History (Responses)									
File Edit View Insert Format Data Tools Extensions Help									
100% 123 Roboto 10 B I A									
A1 Timestamp									
Form_Responses1									
1	Timestamp	Email Address	Score	Name	USN	1.Which of the following Vedanga is related to	2.Which site in Bihar is significant to both Buddhism and Jainism	3. Which of the following is a correct statement about the Gupta period	
16	10/3/2024 18:42:24	premaawati12345@gmail.com	9 / 15	Prerna	01fe23bci038	[A] Kalpa	[C] Nalanda	[A] Right Faith, Right Thought	
17	10/3/2024 18:52:49	jayanisanga@gmail.com	3 / 15	jayani sanga	pes2ug23cs238	[C] Chhanda	[A] Bodhgaya	[A] Right Faith, Right Thought	
18	10/3/2024 19:03:26	23u0894@students.git.e	13 / 15	Sneha karaning	2GI23AE058	[C] Chhanda	[B] Rajgir	[C] Right Faith, Right Thought	
19	10/3/2024 19:04:40	muralidharpattar37@gmail.com	13 / 15	Muralidhar C. Pattar	2GI24EC002	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
20	10/3/2024 19:08:27	ambikashatagar694@gmail.com	14 / 15	Ambika shatagar	1MV23EE005	[C] Chhanda	[D] Vaishali	[A] Right Faith, Right Thought	
21	10/3/2024 19:13:18	23u0837@students.git.e	13 / 15	Shreya kamalak	2GI23AE050	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
22	10/3/2024 19:24:43	praveenhiremath2345@gmail.com	15 / 15	Praveen hiremath	2GI23IS003	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
23	10/3/2024 19:32:06	23u0358@students.git.e	3 / 15	Swati Angadi	2GI23CS159	[A] Kalpa	[A] Bodhgaya	[A] Right Faith, Right Thought	
24	10/3/2024 19:40:43	sandeepkalahal@gmail.com	15 / 15	Sandeep	2GI23IS024	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
25	10/3/2024 19:50:26	vinayakt4@gmail.com	15 / 15	Vinayak	2GI23IS025	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
26	10/3/2024 20:09:38	23u0417@students.git.e	1 / 15	Prem	2GI23EC108	[A] Kalpa	[B] Rajgir	[B] Right Thought, Right Faith	
27	10/3/2024 20:24:21	23u0754@students.git.e	15 / 15	Spoorti H	2GI23EC155	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
28	10/3/2024 21:30:34	rameshgothe1234@gmail.com	15 / 15	Danamma Gothe	4BD23AI023	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	

Copy of Quiz On Indian History (Responses)									
File Edit View Insert Format Data Tools Extensions Help									
100% 123 Roboto 10 B I A									
A1 Timestamp									
Form_Responses1									
1	Timestamp	Email Address	Score	Name	USN	1.Which of the following Vedanga is related to	2.Which site in Bihar is significant to both Buddhism and Jainism	3. Which of the following is a correct statement about the Gupta period	
2	10/3/2024 15:49:14	23u0464@students.git.e	15 / 15	Sneha Hiremath	2GI23CS144	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
3	10/3/2024 17:00:14	23u0469@students.git.e	5 / 15	Bhavana Tenahalli	2GI23EC032	[C] Chhanda	[A] Bodhgaya	[A] Right Faith, Right Thought	
4	10/3/2024 17:04:41	23u0306@students.git.e	15 / 15	Khushi	2GI23EC066	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
5	10/3/2024 17:20:13	23u2563@students.git.e	15 / 15	Ishwari R Shatagar	2GI23EC058	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
6	10/3/2024 17:23:09	sangushashi5@gmail.com	15 / 15	Sangamesh K	22ETCS002172	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
7	10/3/2024 17:24:48	hanamapurea@gmail.com	15 / 15	Akshata Hanamapure	2AG23AD004	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
8	10/3/2024 17:33:51	23u0030@students.git.e	4 / 15	Guddad Rukmini Mahen	2GI23CS051	[C] Chhanda	[B] Rajgir	[B] Right Thought, Right Faith	
9	10/3/2024 17:45:48	danammaghiremath@gmail.com	14 / 15	Rashmi hiremath	2GI24CS001	[C] Chhanda	[D] Vaishali	[C] Right Faith, Right Thought	
10	10/3/2024 18:08:31	23u0180@students.git.e	5 / 15	Danamma Navhi	2GI23EC041	[D] Shiksha	[C] Nalanda	[A] Right Faith, Right Thought	
11	10/3/2024 18:12:08	01fe23bme156@kiletech	14 / 15	Sneha naik	01fe23bme156	[C] Chhanda	[B] Rajgir	[C] Right Faith, Right Thought	
12	10/3/2024 18:12:39	23u0764@students.git.e	13 / 15	Sangeeta H Ganiger	2GI23CS121	[C] Chhanda	[D] Vaishali	[B] Right Thought, Right Faith	
13	10/3/2024 18:18:53	23u0221@students.git.e	5 / 15	Iramma Shivappa Wade	2GI23EC055	[D] Shiksha	[D] Vaishali	[A] Right Faith, Right Thought	
14	10/3/2024 18:24:50	vaishalihawaldar@gmail.com	6 / 15	Vaishnavi hawaldar	2KD23EC056	[A] Kalpa	[A] Bodhgaya	[A] Right Faith, Right Thought	
15	10/3/2024 18:37:03	23u0495@students.git.e	3 / 15	Nihal Samai	2GI23FC086	[C] Chhanda	[C] Nalanda	[A] Right Faith, Right Thought	

### B. Create a quiz on : Indian culture

**OUTPUT:**

[illegible]



## ASSIGNMENT 4

NAME : SNEHA HIREMATH

USN : 2GI23CS144

**PROBLEM STATEMENT:** Programs to Implement Online Voting System

### ALGORITHM:

STEP 1: Initialization

- Set up data structures for users and candidates.

STEP 3: User Registration

- Prompt for username and password.
- Store the user details.

STEP 4: User Login

- Prompt for username and password.
- Validate credentials.

STEP 5: Add Candidate (Admin Functionality)

- Input candidate name and initialize vote count.

STEP 6: Voting Process

- Display candidates.
- Record the vote for the selected candidate.

STEP 7: Display Results

- Show the total votes for each candidate.

STEP 8: Exit the Program

### IMPLEMENTATION LOGIC:

1. Data Structures:

- Use arrays to store user and candidate information.
- Define a structure for users and candidates.

2. Functionality:

- Implement user registration to create user accounts.
- Implement user login to authenticate users.
- Admin functions for adding candidates.
- Allow users to vote, ensuring each user can only vote once.

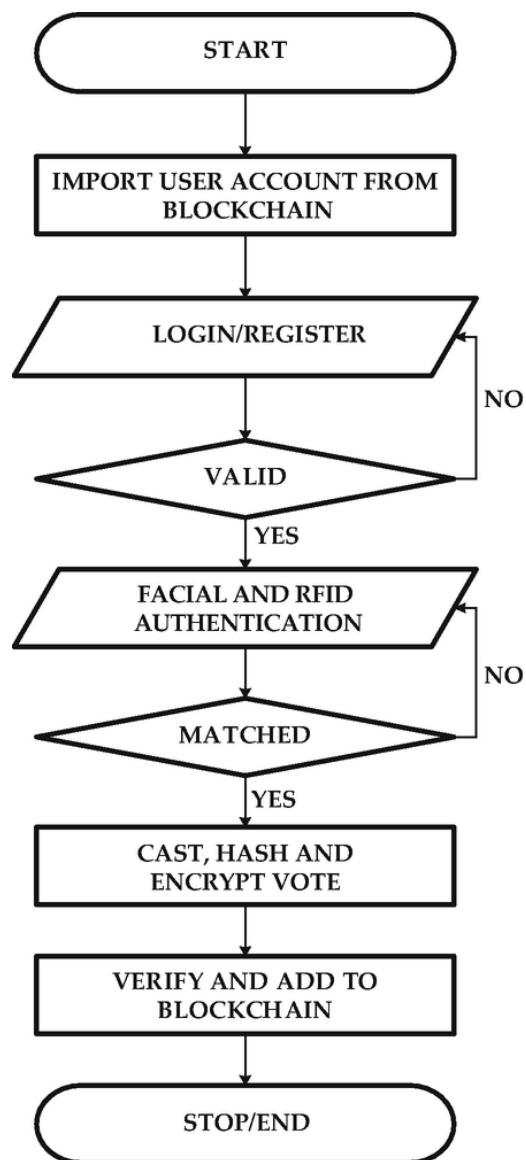
- Display voting results after the voting process.

### 3. User Interaction:

- Utilize console input/output for user interaction.

Provide feedback on actions (successful registration, voting, etc.).

## FLOWCHART:



## PROGRAM:

```
#include <stdio.h>
#include <string.h>
#define MAX_C 11

typedef struct Candidate {
    char name[50];
    int votes;
    char symbol;
} Candidate;

Candidate allCandidates[
MAX_C];
int candidateCount = 0;
char symbols[10]
    = { '!', '@', '#', '$', '%', '^', '&', '*', '~', '+' };
int symbolTaken[11];
void fillCandidate(int);
void displayAllCandidates();
void getVotes(int);
void getResults();

int main()
{
    for (int i = 0; i < 11; i++) {
        symbolTaken[i] = 0;
    }

    printf("Enter the number of candidates: ");
    scanf("%d", &candidateCount);
    if (candidateCount >= MAX_C) {
        printf("Number of candidates cannot be greater "
            "than 10.\n Terminating the program\n\n");
        return 0;
    }
    for (int i = 0; i < candidateCount; i++) {
        fillCandidate(i);
    }

    int numVoters;
    printf("Enter the number of voters: ");
    scanf("%d", &numVoters);

    for (int i = 0; i < numVoters; i++) {
        getVotes(i);
    }

    getResults();

    return 0;
}

void fillCandidate(int cNum)
{
    printf("Available Symbols: \n");
```

```

for (int j = 0; j < 10; j++) {
    if (symbolTaken[j] == 1)
        continue;
    printf("%d %c\n", j + 1, symbols[j]);
}

int num = 0;

printf("\nEnter the symbol number of candidate %d: ",
       cNum + 1);
scanf("%d", &num);

if (num <= 0 || num > 10 || symbolTaken[num - 1] == 1) {
    printf("This Symbol is not available. Please "
           "choose from the available symbols\n");
    num = 0;
    fillCandidate(cNum);
}
else {
    symbolTaken[num - 1] = 1;
    allCandidates[cNum].symbol = symbols[num - 1];
    printf("Enter the name of candidate %d: ",
           cNum + 1);
    scanf("%s", allCandidates[cNum].name);

    allCandidates[cNum].votes = 0;
}
}

void displayAllCandidates()
{
    if (!allCandidates || !candidateCount) {
        perror("Invalid Candidate Array\n");
        return;
    }

    for (int j = 0; j < candidateCount; j++) {
        printf("%s\t\t", allCandidates[j].name);
    }
    printf("\n");
    for (int j = 0; j < candidateCount; j++) {
        printf("%3c\t\t\t", allCandidates[j].symbol);
    }
    printf("\n");
}

void getVotes(int voterCount)
{
    displayAllCandidates();
    printf("Voter %d, please enter your choice (1-%d): ",
           voterCount + 1, candidateCount);
    int choice;
    scanf("%d", &choice);
    if (choice >= 1 && choice <= candidateCount) {
        allCandidates[choice - 1].votes++;
    }
    else {

```

```

        printf("Invalid choice! Please vote again.\n");
        getVotes(voterCount);
    }
}

void getResults()
{
    int maxVotes = 0;
    int winnerIndex = -1;
    int winnerFrequency = 0;
    for (int i = 0; i < candidateCount; i++) {
        if (allCandidates[i].votes > maxVotes) {
            maxVotes = allCandidates[i].votes;
            winnerIndex = i;
        }
    }

    for (int i = 0; i < candidateCount; i++) {
        if (allCandidates[i].votes == maxVotes) {
            winnerFrequency++;
        }
    }

    printf("\n-----RESULT-----\n");
    if (winnerFrequency > 1) {
        printf("No candidate has majority votes\n");
    }
    else if (winnerIndex != -1) {
        printf("The winner is: %s\nCandidate Symbol: "
            "%c\nwith %d votes!\n",
            allCandidates[winnerIndex].name,
            allCandidates[winnerIndex].symbol, maxVotes);
    }
    else {
        printf("No winner\n");
    }
}

```

## OUTPUT:

```
"C:\Users\Hp Pc\Doc" x + v
--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 1
Enter username: SPURTI
Enter password: 1234
User registered successfully.

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 2
Enter username: SPURTI
Enter password: 1234
Login successful.

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote

"C:\Users\Hp Pc\Doc" x + v
--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 3
Enter candidate name: NARENDRAMODI
Candidate added successfully.

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 3
Enter candidate name: RAHULGANDHI
Candidate added successfully.

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
```

```
"C:\Users\Hp Pc\Doc" x + v
--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 4
Enter username: SPURTI
Enter password: 1234
Candidates:
1: NARENDRAMODI
2: RAHULGANDHI
Enter the candidate number to vote for: 1
Vote recorded successfully.

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 5
Voting Results:
NARENDRAMODI: 1 votes
RAHULGANDHI: 0 votes

--- Online Voting System ---
1. Register User
2. Login
3. Add Candidate
4. Vote
5. Display Results
6. Exit
Choose an option: 6

Process returned 0 (0x0)   execution time : 141.396 s
Press any key to continue.
```

## ASSIGNMENT 5

NAME : SNEHA HIREMATH

USN : 2GI23CS144

**PROBLEM DEFINATION :** Programs to Implement simple calculator

### ALGORITHM:

Step 1: Start.

Step 2: Display menu options:

- Addition
- Subtraction
- Multiplication
- Division
- Exit

Step 3: Read the user's choice.

Step 4: If the choice is 5, exit the program.

Step 5: Read two numbers from the user.

Step 6: Based on the user's choice:

- If choice is 1, add the two numbers.
- If choice is 2, subtract the second number from the first.
- If choice is 3, multiply the two numbers.
- If choice is 4, divide the first number by the second (check for division by zero).

Step 7: Display the result.

Step 8: Repeat from step 2 until the user chooses to exit.

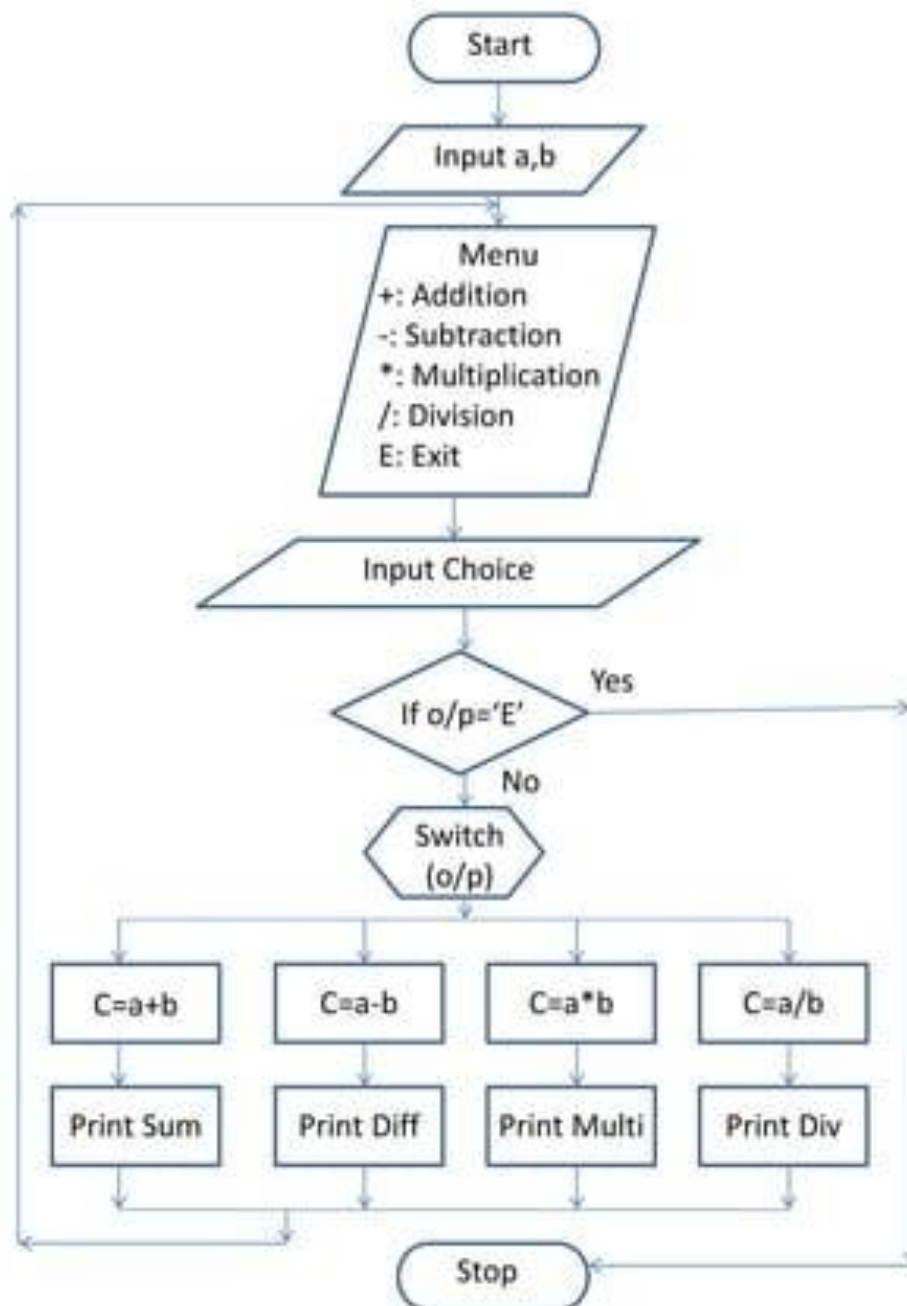
Step 9: End.

### IMPLEMENTATION LOGIC:

1. Menu Display: The program displays a menu with options for addition, subtraction, multiplication, division, and exit.
2. User Input: It takes the user's choice and the two numbers to perform calculations.
3. Switch Case: Based on the user's choice, the program executes the corresponding arithmetic operation using a switch-case statement.
4. Error Handling: It checks for division by zero and handles invalid choices.
5. Looping: The program continues to run until the user chooses to exit.

## FLOWCHART:

### Flow Chart





## PROGRAM :

```
#include <stdio.h>

int main() {

    int choice;

    float num1, num2, result;

    do{

        printf("Simple Calculator\n");

        printf("1. Addition\n");

        printf("2. Subtraction\n");

        printf("3. Multiplication\n");

        printf("4. Division\n");

        printf("5. Exit\n");

        printf("Enter your choice (1-5): ");

        scanf("%d", &choice);

        if (choice == 5) {

            printf("Exiting the program.\n");

            break;

        }

        printf("Enter two numbers: ");

        scanf("%f %f", &num1, &num2);

        switch (choice) {

            case 1:

                result = num1 + num2;

                printf("Result: %.2f + %.2f = %.2f\n", num1, num2, result);

                break;

            case 2:

                result = num1 - num2;

                printf("Result: %.2f - %.2f = %.2f\n", num1, num2, result);

                break;
```

case 3:

```
    result = num1 * num2;
```

```
    printf("Result: %.2f * %.2f = %.2f\n", num1, num2, result);
```

```
    break;
```

case 4:

```
    if (num2 != 0) {
```

```
        result = num1 / num2;
```

```
        printf("Result: %.2f / %.2f = %.2f\n", num1, num2, result);
```

```
    } else {
```

```
        printf("Error: Division by zero is not allowed.\n");
```

```
    }
```

```
    break;
```

default:

```
    printf("Invalid choice. Please try again.\n");
```

```
}
```

```
} while (choice != 5);
```

```
return 0;
```

```
}
```

## OUTPUT:

```
"C:\Users\Hp Pc\Doc x + v
Simple Calculator
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 1
Enter two numbers: 78 89
Result: 78.00 + 89.00 = 167.00
Simple Calculator
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 2
Enter two numbers: 45 56
Result: 45.00 - 56.00 = -11.00
Simple Calculator
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 3
Enter two numbers: 67 78
Result: 67.00 * 78.00 = 5226.00
Simple Calculator
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 4
Enter two numbers: 78 96
Result: 78.00 / 96.00 = 0.81
Simple Calculator
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit
Enter your choice (1-5): 5
Exiting the program.

Process returned 0 (0x0)   execution time : 134.236 s
Press any key to continue.
```

## ASSIGNMENT 7

NAME : SNEHA HIREMATH

USN : 2GI23CS144

### PROBLEM STATEMENT:

All of you need to accomplish the following tasks from an individual perspective such as consider yourself to be owner of an industry, or CEO of a firm or a manager in respective field.

Create envelopes using mail merge to send out greetings to your business partners, co-workers, or employees

While creating the above mentioned see to it to include the following in your document.

- Create your own style in MS Word.
- Create a content Page for your Document.
- add headers and footers to the document with proper heading styles and justification.

### STEPS:

Step 1: Prepare Your Data in Excel

1. Open Excel: Create a new spreadsheet.
2. Enter Your Data: Include headers such as:
  - First Name
  - Last Name
  - Company
  - Address
  - City
  - State
  - ZIP Code
3. Fill in the Rows: Populate the spreadsheet with your recipients' details.
4. Save the File: Save it as "Contacts.xlsx."

Step 2: Set Up the Word Document

*Create a Content Page*

1. Open Microsoft Word: Start a new document.
2. Insert a New Page for Content:
  - Press Ctrl + Enter to insert a page break.

### 3. Create a Title:

- Type "Mail Merge Envelopes" and format it (e.g., bold, 24 pt font).
- Center align the title.

### 4. Add a Table of Contents:

- Below the title, list the sections (e.g., "1. Prepare Data," "2. Create Envelopes," "3. Add Headers and Footers").
- Format the list with appropriate styles (e.g., Heading 1 for main sections).

## Step 3: Create the Envelope

1. Go to the Mailings Tab: Click on "Mailings" in the ribbon.
2. Select Envelopes: Click on "Envelopes" in the "Create" group.
3. Enter Return Address: Fill in your return address.
4. Click "Add to Document": This creates a blank envelope layout.

## Step 4: Start Mail Merge

1. Select Recipients:
  - In the "Mailings" tab, click "Select Recipients" > "Use an Existing List."
  - Choose your "Contacts.xlsx" file.
2. Insert Merge Fields:
  - Click inside the delivery address area of the envelope.
  - Use "Insert Merge Field" to add fields like First Name, Last Name, Company, Address, City, State, and ZIP Code.
  - Format as desired (e.g., use a larger font for names).

## Step 5: Add Headers and Footers

1. Insert Header:
  - Go to the "Insert" tab, click "Header," and choose a style.
  - Type the document title or your company name.
  - Format it (e.g., bold, centered).
2. Insert Footer:
  - Go to the "Insert" tab, click "Footer," and choose a style.
  - Add page numbers by selecting "Page Number" from the footer options.
  - Include the date if desired.

## Step 6: Preview and Complete the Mail Merge

1. Preview Results: Click "Preview Results" in the "Mailings" tab to see how the envelopes look.
2. Finish & Merge: Choose "Finish & Merge" > "Print Documents" or "Edit Individual Documents" to create a new document.

#### Step 7: Print the Envelopes

1. Print Directly: If you selected to print, set your printer options and print.
2. Edit Individual Documents: If you created a new document, make final adjustments and print.

#### Step 8: Organize and Send

1. Sort Envelopes: Organize them as needed.
2. Deliver or Mail: Send them out to recipients.

## ASSIGNMENT 8

NAME : SNEHA HIEMATH

USN : 2GI23CS144

**PROBLEM STATEMENT:** Demonstrate how to set the password to provide the security to your documents.

### STEPS:

1. Open the Document: Open Microsoft Word and the document you wish to protect.
2. Go to File Menu: Click on the File tab in the top-left corner of the window.
3. Select Save As: Choose Save As from the menu. You can choose to save it in the cloud (OneDrive) or locally on your computer.
4. Choose the Location: Select the location where you want to save the document.
5. Open the Options: In the Save As dialog box, look for a button or link labeled Tools (this is usually located near the Save button at the bottom).
6. Select General Options: Click on Tools, then select General Options from the drop- down menu.
7. Set Passwords: In the General Options dialog box, you will see fields for:
  - Password to open: Enter a password that will be required to open the document.
  - Password to modify: Enter a password that will be needed to make changes to the document (optional).Fill in the desired password(s).
8. Confirm Passwords: After entering the passwords, click OK. You may be prompted to re-enter the password(s) to confirm.
9. Complete the Save As Process: Click Save in the Save As dialog box to save your document with the password protection.
10. Test the Password: Close the document and try reopening it to ensure that the password works as intended.

OUTPUT:

