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INTRODUCTION:

In this project, we make a voting machine in which we have 4 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 winner party for every year.



> AIM:

 This Project main aim is to provide safe and secure voting system environment, where admin can allow the user to vote, and admin declare a result.

> MODULES OF THE PROJECT :

- 1)Admin Login (username and password)
- 2) Candidate information (Name and Symbol of Party)
- 3) User Voting (Voter Id and Voting)
- 4) Result Declaration



EXPLANATION:

- Project is people to vote and select their Leader
- Project may be used colleges / schools to select Class
 Representative or Leader to college
- Simple to Use and May Future need this
- Voting does not to be scam. This project is safe and secure.
- Scope Always there is a need of Election in Democracy System,

It has a huge scope.

> CONCLUSION -

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

Program:

```
#include<stdlib.h>
#include<stdio.h>
#include<string.h>
void printMessageCenter(const char* message)
  int len =0;
  int pos = 0;
  //calculate how many space need to print
  len = (78 - strlen(message))/2;
  printf("\t\t\t");
  for(pos =0 ; pos < len ; pos++)</pre>
    //print space
    printf(" ");
  //print message
  printf("%s",message);
void headMessage(const char *message)
  system("cls");
########");
Voting Machine
                                               #########")
#########");
printf("\n\t\t\#############################");
printf("\n\t\t\-----\n");
printMessageCenter(message);
printf("\n\t\t\-----");
```

```
void main()
    char username[15];
    char password[12];
    printf("Enter your username:\n");
    scanf("%s",&username);
    printf("Enter your password:\n");
    scanf("%s",&password);
    if(strcmp(username, "group6")==0){
        if(strcmp(password, "123")==0){
        printf("\nWelcome.Login Success!");
        welcomeMessage();
        int n,n1,n3,n4,n5,maxi,sum,pos,flag,k=0,co=0,br=0;
        char filename[10];
        char st[100][100], vote[100][100];
        char sy[100],cp[20],t[100];
        int count[100]={0}; char n2,a;
        printf("\n");
        printf("\n");
        printf("\n");
        printf("\n\n\n");
        headMessage("CANDIDATES");
        printf("\nEnter the number of candidates participating in the
election :\n");//entering candidate details
        scanf("%d",&n5);
        int i = 0, j;
        while(i<n5)
```

```
int temp=0;
     printf("\n\n\n");
     printf("======for %d candidate======\n",i+1);
     printf("\n\n");
     printf("Enter the Name of the candidate : \n");
     scanf("%s",st[i]);
     printf("\nEnter the Symbol of the candidate :\n");
     scanf(" %c",&a);
     for(j = 0; j < i; j + +)
         if(sy[j] == a)
             printf("\n\aThe symbol is already taken.\n\n");
             printf("Please re-enter the details of the candidate.\n");
             temp = 1;
             break;
     if (temp == 0)
         sy[i] = a;
         i++;
 printf("\n\n\n");
 printf("Enter 1 to vote or any other key to exit the poll :\n");
 scanf("%d",&n1);
 if(n1!=1)
     exit(1);
while(n1==1)
        {printf("\n\n\n");printf("\n\n\n");
            printf("Press enter to continue....\n");
            char *date = malloc(sizeof(char) * 8);
            headMessage("VOTER DETAILS");
            printf("\nEnter your voter ID\n");
            scanf("%s",date);
            strcpy(vote[k],date);
            k++;
```

```
if(strcmp(t,date)==0)
                co=-1:
            for(i=0;i<k+1;i++)
                if(strcmp(date,vote[i])==0)
                    co++;
            if(co==1)
                flag=0;
            else
                flag=1;
                co=0;
        if(flag==0)
            FILE *fp = fopen("voters.csv", "r");
            if (!fp) {
                printf("Can't open file\n");
            char buf[1024];//Buffer of 1 kilo byte; Can be varied accordingly
            int field count = 0;
            int entries = 0;
            fgets(buf, 1024, fp);//Skip heading row
            char *field = strtok(buf, ",");
            while(fgets(buf, 1024, fp))
            { field count = 0;
                field = strtok(buf, ",");//Store next kilobyte into buffer;
                if(strcmp(field,date) == 0)//Check if date matches input
                    while(field){
                        if (field_count == 0) {
                            printf("\nVOTER ID:\t");
                        if (field_count == 1) {
                            printf("NAME:\t");
                        if (field_count == 2) {
                            printf("AGE:\t");
                        printf("%s\n", field);
                        field = strtok(NULL, ",");
                        field_count++;
```

```
fclose(fp);
       printf("\n\n"); printf("\n\n");
       printf("Press any key to continue.....\n");
       getch();
       printf("Cast your vote by selecting the symbol of your representative\n");
          headMessage("CASTING THE VOTE");
          printf("\n");printf("\n");printf("\n");
          printf("Enter the symbol of your Representative :\n");
          for(i=0;i<n5;i++)
            printf("%d. %s (%c)\n",i+1,st[i],sy[i]);
            int fl=0;
            scanf(" %c",&n2);
            for(i=0;i<n5;i++)
            if(n2==sy[i])
               {fl=1;}
              break;
            else
              fl=0;
```

```
if(fl==1)
              for(i=0;i \le n5;i++)
              if(n2==sy[i])
                 count[i]++;
              printf("\aThank You! Your vote has been casted.\n"); printf("\n\n\n"); printf("\n\n\n");
              printf("Press any key to continue\n");
   else{
                  strcpy(t,date);
                  printf("\langle n \rangle n \rangle");
                  printf("\aWrong symbol is entered. Enter the correct symbol\n");
                  printf("The details are to be re-entered.\n");
                  printf("\langle n \rangle n \rangle");
                  printf("Press any key to continue\n");
                  continue;
        headMessage("MENU");
   while(n1==1)
          printf("\n");printf("\n");
   printf("Enter your choice \n1. Results\n2. Difference between the votes of any two candidates\n3
   Finish your voting\n4. EXIT the Poll\n ");
          scanf("%d",&n);
```

```
if(n==1)
   headMessage("Results");
  printf("\langle n \rangle n \rangle");
  printf("The Result according to votes casted so far is as follows: \n");
  printf("\n");printf("\n");
  for(i=0;i< n5;i++)
  printf(" %s( %c): %d\n",st[i],sy[i],count[i]);
 else if(n==2)
   headMessage("Difference");
   printf("\n\n");
   for(i=0;i<n5;i++)
  printf("%d. %s (%c)\n",i+1,st[i],sy[i]);
```

```
printf("Enter the serial nos. of whose vote count differences are to be known: \n")
        scanf("%d%d",&n3,&n4);
        if(count[n3-1]==count[n4-1])
         printf("It's a Tie between both the candidates\\n");
        printf("\langle n \rangle n \rangle");
        printf("The difference between %s and %s is %d",st[n3-1],st[n4-1],count[n3-1]-count[n4-1]);
     else if(n==3)
       break;
     else if(n>4)
       printf("\aWRONG OPTION ENTERED TRY AGAIN");
      else
       n1=0;
else
  printf("\a\a\a\a\a\Error!!!! You already casted your vote ");printf("\n\n\n");
  printf("press any key to continue\n");
headMessage(" FINAL RESULTS");
for(i=0; i<n5; i++)
```

```
/* File name for storing Candidate details */
 sprintf(filename, "file%d.apk", i+1);
 FILE * fPtr;
/* If above operation is failed print error and exit */
if(fPtr == NULL)
  /* File not created hence exit */
  printf("Unable to create file.\n");
  exit(EXIT_FAILURE);
/* Writing data in the file */
fPtr = fopen(filename, "w");
printf("\nCandidate : %s",st[i]);
fprintf(fPtr,"candidate:%s\n",st[i]);
printf("\t Symbol : %c",sy[i]);
fprintf(fPtr,"symbol:%c\n",sy[i]);
printf("\t Votes : %d\n",count[i]);
fprintf(fPtr,"votes:%d\n",count[i]);
```

```
/* Closing the file */
fclose(fPtr);
}
}else{
printf("\nwrong password\n");
main();
}
}else{
printf("\nUser doesn't exist\n");
main();
```

Input and Output:

