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//OUR TEAM
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#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\-----
 ----\n");
  printMessageCenter(message);
```

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.----");
void welcomeMessage()
   headMessage("Welcome to The Election");
   printf("\n\n\n\n\n");
   printf("\n\t\t\ ----\n");
   printf("\n\t\t\t =========");
                           WELCOME
TO
ELECTRONIC
   printf("\n\t\t\t
printf("\n\t\t\t
   printf("\n\t\t\t =
printf("\n\t\t\t =
printf("\n\t\t\t =
                                                           =");
                                                           =");
                                    VOTING
                                                          =");
                             MACHINE
   printf("\n\t\t\t
                                                           =");
   printf("\n\t\t\t =-=-=-=");
   printf("\n\t\t\t -----\n");
   printf("\n\n\t\t\t Enter any key to continue.....");
   getch();
void main()
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(" ..... WELCOME TO CLAIM YOUR RIGHT TO VOTE
....\n");
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");
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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");
    getch();
    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++)</pre>
        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");
        return 0;
    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++;
            printf("\n");
    fclose(fp);
printf("\n\n\n");printf("\n\n\n");
printf("Press any key to continue.....\n");
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getch();
printf("Cast your vote by selecting the symbol of your representative\n");
        headMessage("CASTING THE VOTE");
        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++)</pre>
            if(n2==sy[i])
                {fl=1;
                break;
            else
                fl=0;
            if(fl==1)
            for(i=0;i<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");
            getch();}
            else{
                strcpy(t,date);
                printf("\n\n\n");
                printf("\aWrong symbol is entered. Enter the correct
symbol\n");
                printf("The details are to be re-entered.\n");
```

```
printf("\n\n\n");
               printf("Press any key to continue\n");
               getch();
               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("\n\n\n");
           printf("The Result according to votes casted so far is as follows
: \n");
           printf("\n");printf("\n");
           for(i=0;i<n5;i++)
           else if(n==2)
            headMessage("Difference");
            printf("\n\n\n");
            for(i=0;i<n5;i++)</pre>
           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("\n\n\n");
            printf("The difference between %s and %s is %d",st[n3-1],st[n4-
1],count[n3-1]-count[n4-1]);
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else if(n==3)
           break;
         else if(n>4)
            printf("\aWRONG OPTION ENTERED TRY AGAIN");
         else
            n1=0;
else
    printf("\a\a\a\aError!!!! 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]);
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```
printf("\t Votes : %d\n",count[i]);
  fprintf(fPtr,"votes:%d\n",count[i]);

/* Closing the file */
  fclose(fPtr);
}}
```