#include <stdio.h>

#include <stdlib.h>

#include <string.h>

void employeedetails(char a[],int b,char c[],int d,long int e,char f[]);

void employeesalary(int a,int b, int c,int d);

void employeeattandance(int y,int a[],int b[15][15],char c[15][15],int d[15][15],float e[15][15],int f[],int g[15][15], char h[15][15], int i[15][15], float j[15][15]);

void employeeleave(int a, int b, char c, int d, char e,int f, int g);

int main()

{

int choose,dw,dw1,user,n,a,b,e,x,y,i,event=0,entry=0,exit=0,password1,password2,infocheck[15]={0},check1[15],check2[15],admin,g,h,serialcheck;

int eventdate[15],eventyear[15],entryyear[15][15],exitdate[15][15], exityear[15][15],leavedate[15],leaveyear[15],entrydate[15][15],usernamecheck;

int leavecheck[15],leavedays[15],leaveapproval[15],experience[15],performance[15],trainingcheck[15], performancecheck[15];

int financecheck[15];

double entrytime[15][15],exittime[15][15],eventtime[15];

char eventmonth[15][15],eventname[15][15],leavereason[15][15],leavemonth[15][15], exitmonth[15][15],entrymonth[15][15],username1[30];

struct employee{

char username[30],birthmonth[15],gmail[30];

int password,date,year,duedate,salary,allowance,loan;

long int phonenumber;

}employee[15];

do{

printf(“Dear Admin\nKindly Press 1 for accessing User Panel\nKindly Press 2 for accessing administration panel\n");

scanf("%d", &choose);

if(choose==1){

do{

printf("USER PANEL CONSOLE\n");

printf("\n\n");

printf(" ADMINISTRATOR LOGIN \n");

printf(“Kindly Enter the Serial Number\n");

scanf("%d", &b);

printf(“Kindly Enter the User Name\n");

scanf("%s", username1);

printf(“Kindly Enter the Password\n");

scanf("%d", &password1 );

if(username1[30]!= employee[b].username){

usernamecheck=1;

}

if(employee[b].password==password1 && usernamecheck!=1){

printf(“The Entered User Name and Password is Correct\n");

printf("USER PANEL CONSOLE");

printf("\n\n");

do{

printf("Press 1 to Update Password\n Press 2 to Manage Personal information\n Press 3 to View Salary\n Press 4 to View Attendance\n");

printf(" Press 5 to View Events\n Press 6 to Manage Leave\n Press 7 to View Performance\n Press 8 to Log Out\n");

scanf("%d", &user);

if(user==1){

printf("UPDATE PASSWORD");

printf(“Kindly Enter the New Password\n");

scanf("%d", &employee[b].password);

printf(“Dear Employee, Your password has been updated\n");

}else if(user==2){

do{

printf("MANAGE PERSONAL INFORMATION\n");

printf(" Press 1 to Edit the Information \n Press 2 to view the Information\n");

scanf("%d", &g);

if(g==1){

if(infocheck[b]==1){

printf(“Kindly Enter the Date of Birth \n");

scanf("%d.%s.%d", &employee[b].date,employee[b].birthmonth, &employee[b].year);

printf(“Kindly Enter the Phone Number\n");

scanf("ld", &employee[b].phonenumber);

printf(“Kindly Enter the Correct Email ID\n");

scanf("%s", employee[b].gmail);

}else printf(“Dear Employee, the information is not yet uploaded by the admin. Kindly contact the administrator\n”);

}else if(g==2){

if(infocheck[b]==1){

employeedetails(employee[b].username,employee[b].date,employee[b].birthmonth,employee[b].year,employee[b].phonenumber, employee[b].gmail);

}else printf("No information is updated\n");

}

printf(“Kindly Press 1 to return back to Manage Personal Information Menu or any other key to exit the console\n");

scanf("%d", &dw1);

}while(dw1==1);

}else if(user==3){

do{

printf("SALARY\n");

if(financecheck[b]==1){

employeesalary(employee[b].salary,employee[b].allowance,employee[b].loan,employee[b].duedate);

}else printf(“The Employee Finance has not been uploaded by the admin, Kindly contact the administrator\n");

printf(“Kindly Press 1 to return back to Salary Menu or any other number to exit\n");

scanf("%d", &dw1);

}while(dw1==1);

}else if(user==4){

printf("ATTENDANCE\n");

employeeattandance(b,check1,entrydate,entrymonth,entryyear,entrytime,check2,exitdate,exitmonth,exityear,exittime);

}else if(user==5){

printf("EVENTS\n");

if(event>0){

for(x=0;x<event;x++){

printf(“The Event Name : %s\n", eventname[x]);

printf(“The Event Time is %lf on %d,%s,%d\n ", eventtime[x], eventdate[x], eventmonth[x], eventyear[x]);

}

}else printf(“Dear Employee, There are no current events to be hosted in the calendar\n");

}else if(user==6){

do{

printf("MANAGE LEAVE\n");

printf(" Kindly Press 1 to apply for a Leave\n Kindly Press 2 to view approval of Leave\n");

scanf("%d", &g);

if(g==1){

printf(“Kindly Enter the reason for Leave\n");

scanf("%s", leavereason[b]);

printf(“Kindly Enter the Date in (DD.MM.YYYY) from which you wish to take leave\n");

scanf("%d.%s.%d\n",&leavedate[b],leavemonth[b],&leaveyear[b]);

printf(“Kindly Enter the Number of Days the leave to be applied\n");

scanf("%d", &leavedays[b]);

leavecheck[b]=1;

}else if(g==2){

employeeleave(leavecheck[b],leaveapproval[b], leavereason[b], leavedate[b],leavemonth[b],leaveyear[b],leavedays[b]);

}

printf(“Kindly Press 1 to return back to manage Leave Menu or any other key to Exit\n");

scanf("%d", &dw1);

}while(dw1==1);

}

printf(“Kindly Press 1 to return back to User Panel menu or any other to Exit\n");

scanf("%d", &dw1);

}while(dw1==1);

}else{ printf(“Dear Employee, the entered Username or Password is incorrect\n");}

printf(“Kindly Press 1 to return back to User Panel login or any other to exit\n");

scanf("%d", &dw1);

}while(dw1==1);

}else if(choose ==2){

do{

printf("ADMINSTRATION PANEL\n");

printf("\n\n");

printf(“Enter the Administrator Password\n");

scanf("%d", &password2);

if(password2==11){

printf(“Dear admin, the entered password is correct\n");

do{

printf(" Press 1 to Add New User\n Press 2 to Manage Employee Personal information\n Press 3 to Manage Employee Finance\n Press 4 to Manage Employee attendance\n");

printf(" Press 5 to Manage Company Events\n Press 6 to Manage Employee Leave\n Press 7 to Manage Employe Training Record\n Press 8 to Manage Employee Performance\n");

printf(" Press 9 to View the list of Employees\n");

scanf("%d", &admin);

if(admin==1){

printf(“Dear Admin, Enter the number of Users to be added\n");

scanf("%d", &n);

for(a=serialcheck;a<serialcheck+n;a++){

printf("Enter the Username of the new Employee %d\n", a+1);

scanf("%s", employee[a].username);

printf("Enter the Password of the new Employee %d\n", a+1 );

scanf("%d", &employee[a].password);

printf(“Enter the Serial Number of the new Employee %d is %d\n", a+1, a );

}

serialcheck=serialcheck+n;

}else if(admin==2){

do{

printf("EMPLOYEE PERSONAL INFORMATION\n");

printf(" Press 1 to add new Information\n Press 2 to update Information\n");

scanf("%d",&h);

if(h==1){

printf("Enter the serial number of the employee\n");

scanf("%d", &a);

if(a<=serialcheck && a>=0){

printf("Enter the Date of Birth of the User: \n”);

scanf("%d.%s.%d", &employee[a].date, employee[a].birthmonth, &employee[a].year);

printf("Enter the Phone Number of the User: \n”);

scanf("%ld", &employee[a].phonenumber);

printf("Enter the Email ID: \n”);

scanf("%s", employee[a].gmail);

infocheck[a]=1;

}else printf(“Dear Admin, No such user exist. Kindly verify the user credentials again\n”);

}else if(h==2){

printf("Enter the serial number of the employee\n");

scanf("%d", &a);

if(a<=serialcheck && a>=0){

if(infocheck[a]==1){

printf("Enter the Date of Birth of the User:\n");

scanf("%d.%s.%d", &employee[a].date, employee[a].birthmonth, &employee[a].year);

printf("Enter the Phone Number of the User: \n");

scanf("%ld", &employee[a].phonenumber);

printf("Enter the Email ID:\n");

scanf("%s", employee[a].gmail);

}else printf(“Dear Admin, Please add information of the user:\n”);

}else printf(“Dear Admin, No such user exist\n");

}

printf("Press 1 to return to EMPLOYEE PERSONAL INFORMATION or any other key to exit\n");

scanf("%d", &dw);

}while(dw==1);

}else if(admin==3){

do{

printf("EMPLOYEE FINANCE\n");

printf("Enter the Serial Number of the User\n");

scanf("%d", &a);

if(a>=0 && a<=serialcheck){

printf(“Enter the SALARY of the Employee\n");

scanf("%d", &employee[a].salary);

printf("MANAGE the ALLOWANCE of the Employee\n");

scanf("%d", &employee[a].allowance);

printf(“MANAGE the LOAN of the Employee\n");

scanf("%d", &employee[a].loan);

printf("MANAGE the DUE DATE of the Employee\n");

scanf("%d", &employee[a].duedate);

financecheck[a]=1;

}else printf(“Dear Admin, No such user exists\n");

printf("Press 1 to return back to EMPLOYEE FINANCE or any other number to exit the console\n");

scanf("%d", &dw);

}while(dw==1);

}else if(admin==4){

do{

printf("EMPLOYEE ATTENDANCE\n");

printf(" Press 1 to enter the Entry Time of the Employee\n Press 2 to enter the exit time of the Employee\n");

scanf("%d", &h);

printf("Enter the serial number of the Employee\n");

scanf("%d", &a);

if(a>=0 && a<=serialcheck){

if(h==1){

if(check1[a]==0){

entry=0;

}

do{

printf("Enter the Employee Entry Time in HH.MM format: \n”);

scanf("%lf", &entrytime[a][entry]);

printf("Enter the date of entry in DD.MM.YYYY format: \n”);

scanf("%d.%s.%d", &entrydate[a][entry],& entrymonth[a][entry], &entryyear[a][entry]);

check1[a]++;

entry++;

printf("Press 1 to enter another entry detail or any other number to exit the console\n ");

scanf("%d", &dw);

}while(dw==1);

}else if(h==2){

do{

if(check2[a]==0){

exit=0;

}

printf("Enter the Employee exit time in HH.MM format\n”);

scanf("%lf", &exittime[a][exit]);

printf("Enter the Employee exit date in DD.MM.YYYY format:\n");

scanf("%d.%s.%d", &exitdate[a][exit], &exitmonth[a][exit], &exityear[a][exit]);

check2[a]++;

exit++;

printf("Press 1 to enter another exit details or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

}

}else printf(“Dear Admin, no such user exist\n");

printf("Press 1 to return back to EMPLOYEE ATTENDANCE or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

}else if(admin==5){

do{

printf("EMPLOYEE EVENTS\n");

printf("Enter the number of events to be added\n");

scanf("%d", &e);

for(a=event;a<event+e;a++){

printf("Enter the EVENT name\n");

scanf("%s", eventname[a]);

printf("Enter the Time in HH.MM format\n”);

scanf("%lf", &eventtime[a]);

printf("Enter the event date in DD.MM.YYYY format\n”);

scanf("%d,%s,%d", &eventdate[a], eventmonth[a], &eventyear[a]);

}

event=event+e;

printf("Press 1 to return back to EMPLOYEE EVENTS or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

}else if(admin==6){

do{

printf("MANAGE EMPLOYEE LEAVE\n");

printf("Enter the serial number of the employee\n");

scanf("%d", &a);

if(a>=0 && a<=serialcheck){

if(leavecheck[a]==1){

printf(“The reason for the leave requested by employee is %s\n",leavereason[a] );

printf(“The leave date is requested from %d,%s,%d for %d days", leavedate[a], leavemonth[a], leaveyear[a], leavedays[a]);

printf(“ Press 1 to approve leave request\n Press 2 to decline leave request\n");

scanf("%d", &leaveapproval[a]);

}else printf(“Dear Admin, the employee has not applied for leave\n");

}else printf("Dear Admin, no such user exist\n");

printf("Press 1 to return back to manage employee leave menu or any other key to exit\n");

scanf("%d", &dw);

}while(dw==1);

}else if(admin==7){

printf("MANAGE EMPLOYEE TRAINING RECORDS\n");

printf("Enter the serial number of the user\n");

scanf("%d", &a);

if(a>=0 && a<=serialcheck){

printf("Enter the total years of experience of the employee in company\n”);

scanf("%d", &experience[a]);

printf("Press 1 to register the certificate courses pursued by employee or any other number to exit\n");

scanf("%d", &h);

if(h==1){

printf("Enter the name of the course pursued by the employee\n");

}

trainingcheck[a]=1;

}else printf("Dear Admin, no such user exist\n");

}else if(admin==8){

printf("EMPLOYEE PREFORMANCE\n");

printf("Enter the Serial Number of the user\n");

scanf("%d", &a);

if(a>=0 && a<=serialcheck){

printf("Rate the work performance of the employee in the scale of 1 to 5\n");

scanf("%d", &performance[a]);

performancecheck[a]=1;

}else printf("Dear Admin, no such user exist\n");

}else if(admin==9){

for(a=0;a<serialcheck;a++){

printf("%s\t", employee[a].username);

printf("%d\t", employee[a].password);

printf("%d,%s,%d\t", employee[a].date,employee[a].birthmonth,employee[a].year);

printf("\n");

}

}

printf("Press 1 to return back to admin menu or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

}else{printf("incorrect password\n");}

printf("Press 1 to return to admin menu or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

}

printf("Press 1 to return back to main menu or any other number to exit\n");

scanf("%d", &dw);

}while(dw==1);

return 0;

}

void employeedetails(char a[],int b,char c[],int d,long int e,char f[]){

printf(“The Username : %s\n", a );

printf(“The Date of Birth : %d,%s,%d\n",b , c, d);

printf(“The Phone Number: %ld\n", e);

printf(“The Email ID : %s\n",f);

}

void employeesalary(int a,int b, int c,int d){

int g;

printf(" Press 1 to view Payments and Tax Deductions\n Press 2 to view Net Salary\n press 3 to view Duration\n");

scanf("%d", &g);

if(g==1){

printf(" The Fixed Salary : %d\n", a);

printf(" The Allowance amount : %d\n", b);

}else if(g==2){

printf(“The Net Salary : %d\n", a+b-c);

}else if(g==3){

printf(“The Duration : %d\n", d);

}

}

void employeeattandance(int y,int a[],int b[15][15],char c[15][15],int d[15][15],float e[15][15],int f[],int g[15][15], char h[15][15], int i[15][15], float j[15][15])

{

int x;

if(a[y]!=0){

for(x=0;x<a[y];x++){

printf(" The Employee Entry Time on %d.%d.%d is %f\n", b[y][x],c[y][x],d[y][x],e[y][x]);

}

}else printf("Dear Admin, no entry time is updated\n");

if(f[y]!=0){

for(x=0;x<f[y];x++){

printf(" The Employee exit time on %d.%d.%d is %f\n", g[y][x], h[y][x], i[y][x], j[y][x]);

}

}else printf("Dear Admin, no exit time is updated\n");

}

void employeeleave(int a, int b, char c, int d, char e,int f, int g){

if(a==1 && b==1){

printf(“The reason for the leave requested from employee is %s\n",c );

printf(“The leave date is requested from %d,%s,%d for %d days", d, e, f, g);

printf("The leave is approved by the administrator\n");

}else if(a==1 && b==2){

printf("The reason for the leave requested from employee is %s\n",c );

printf("The leave date is requested from %d,%s,%d for %d days", d, e, f, g);

printf("The leave is not approved from the administrator due to following reasons\n");

}else if(a==1 && b==0){

printf("Your Leave Request is not viewed by the admin, Kindly wait else contact administrator in case of emergency leave\n");

}else if(a==0){

printf("You have not applied for a leave\n");

}

}