/\*Team 3 :

Member team

1. Pal Chev

2. Ourng Limeng

3. Lay Uodom

4. Nan Sokheang

5. Meas Net

\*/

#include <stdio.h>

#include <conio.h>

#include <windows.h>

#include <string.h>

struct Employee{

int id;

char firstname[20];

char lastname[20];

char fullname[30];

char sex;

char birthday[30];

float salary;

}Em[10],em[10],temp;

int n;

int i,j,t=5,r=5;

float netSalary[10],temp1;

void updatetable(struct Employee em);

void gotoxy1(int n);

void rectangle(int l,int j);

void rectangle1(int l,int j);

void rectangle2(int l,int j);

void rectangle3(int l,int j);

void backgroundred(){

SetConsoleTextAttribute (GetStdHandle(STD\_OUTPUT\_HANDLE), FOREGROUND\_RED |

FOREGROUND\_GREEN |

FOREGROUND\_INTENSITY |

BACKGROUND\_RED

);

}

void backgroundgreen(){

SetConsoleTextAttribute (GetStdHandle(STD\_OUTPUT\_HANDLE), FOREGROUND\_RED |

FOREGROUND\_GREEN |

FOREGROUND\_INTENSITY |

BACKGROUND\_GREEN

);

}

void white(){

printf("\033[0;37m");

}

void red(){

printf("\033[1;31m");

}

void yellow(){

printf("\033[1;33m");

}

void purple(){

printf("\033[0;35m");

}

void blue(){

printf("\033[0;34m");

}

void green(){

printf("\033[0;32m");

}

void listemployee(int r);

void table();

void tablesort();

void H\_line(int x, int y, int n);

void gotoxy(short x, short y);

void findnetsalary();

void Deleting();

void fullname();

void AddEmployee();

void savetofile();

void loading();

void main(){

short x,y;

printf("\n%c Enter the number of employees : ", 5);

fflush(stdin); againn: scanf("%d", &n); system("cls");

if(n>10){

blue(); printf("%c ",30);

red(); printf("\aYou can not enter more than 10 employees.\n"); white();

printf("\nEnter again: ");

rectangle1(13,1);

gotoxy(17,2); white(); goto againn;

}

else{

for(i=0;i<n;i++){

green(); rectangle(1,0); gotoxy(3,1); purple(); printf(" %c Employee #%d ", 2,(i+1)); white();

fflush(stdin);

printf("\n\n%c Enter ID : ", 16); again1: scanf("%d", &Em[i].id);

for(j=1;j<=n;j++){

if(Em[i].id==Em[i-j].id){

red(); printf("This ID is the ID of the employee #%d, please enter a different ID.\n",i-j+1);

white(); printf("\a%c Input another ID: ", 16);

goto again1;

}

}

fflush(stdin);

printf("%c Enter Firstname : ", 16); gets(Em[i].firstname);

fflush(stdin);

printf("%c Enter Lastname : ", 16); gets(Em[i].lastname);

printf("%c Enter Sex : ", 16); scanf("%c", &Em[i].sex);

fflush(stdin);

printf("%c Enter Birthday : ", 16); gets(Em[i].birthday);

fflush(stdin);

printf("%c Enter Salary (KHR) : ", 16); scanf("%f", &Em[i].salary);

system("cls");

}

savetofile();

loading();

table();

fullname();

int m;

char sid,idnotfound,yn;

int s\_id,ch;

char fullnamefors[30];

printf("\n\n%c Do you want to update employee's information?", 254);

purple();

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR"); purple();

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white();

printf("\n\n%c Input : ", 26); ny1: fflush(stdin); scanf("%c", &yn);

if(yn=='Y' || yn=='y'){

again6:

system("cls");

table();

gotoxy(1,5+2\*n); printf("%c Do you want to search employee's ID or employee's name for update", 254);

blue(); rectangle2(1,6+2\*n);

gotoxy(2,7+2\*n); white(); printf("Press 1 for search by ID");

blue(); rectangle2(31,6+2\*n);

gotoxy(32,7+2\*n); white(); printf("Press 2 for search by Name"); white();

// fflush(stdin);

printf("\n\n%c Input : ", 26);

input2: fflush(stdin); scanf("%d", &ch);

system("cls");

switch(ch){

case 1:

table();

printf("\n\n%c Enter ID of employee that you want to find : ", 6);

rectangle1(47,5+2\*n); white();

gotoxy(48,6+2\*n); again: fflush(stdin); scanf("%d", &s\_id);

system("cls");

for(i=0;i<n;i++){

if(Em[i].id==s\_id){

updatetable(Em[i]);

gotoxy(38,7);

printf("%c Choose your option for update\n", 16);

green();

rectangle(20,9);

rectangle(43,9);

rectangle(66,9);

rectangle(31,12);

rectangle(54,12);

rectangle(42,15);

white();

gotoxy(22,10); printf("1 %c Firstname\n", 26);

gotoxy(45,10); printf("2 %c Lastname\n", 26);

gotoxy(68,10); printf("3 %c Sex\n", 26);

gotoxy(33,13); printf("4 %c Birthday\n", 26);

gotoxy(56,13); printf("5 %c Salary\n", 26);

gotoxy(44,16); printf("6 %c All information\n", 26);

gotoxy(44,18); printf("Input : ");

number: fflush(stdin); scanf("%d", &m);

white();

switch(m){

case 1:

fflush(stdin);

gotoxy(39,20); printf("Enter new Firstname : "); gets(Em[i].firstname);

break;

case 2:

fflush(stdin);

gotoxy(39,20); printf("Enter new Lastname : "); gets(Em[i].lastname);

break;

case 3:

fflush(stdin);

gotoxy(42,20); printf("Enter new Sex : "); scanf("%c", &Em[i].sex);

break;

case 4:

fflush(stdin);

gotoxy(39,20); printf("Enter new Birthday : "); gets(Em[i].birthday);

break;

case 5:

fflush(stdin);

gotoxy(39,20); printf("Enter new Salary : "); scanf("%f", &Em[i].salary);

break;

case 6:

fflush(stdin);

gotoxy(39,20); printf("Enter new Firstname : "); gets(Em[i].firstname);

fflush(stdin);

gotoxy(39,21); printf("Enter new Lastname : "); gets(Em[i].lastname);

gotoxy(39,22); printf("Enter new Sex : "); scanf("%c", &Em[i].sex);

fflush(stdin);

gotoxy(39,23); printf("Enter new Birthday : "); gets(Em[i].birthday);

fflush(stdin);

gotoxy(39,24); printf("Enter new salary : "); scanf("%f", &Em[i].salary);

break;

default:

gotoxy(44,19); red(); printf("Input again : "); white();

gotoxy(58,19); goto number;

}

system("cls");

idnotfound='t';

break;

}

else{

idnotfound='f';

}

}

if(idnotfound=='f'){

table();

printf("\a\n "); backgroundred(); printf("ID not found!!!\n\n");

gotoxy(2,7+2\*n); white(); printf("Please input ID again: "); rectangle1(25,6+2\*n);

gotoxy(26,7+2\*n); white(); goto again;

}

table();

for(i=0;i<n;i++){

fflush(stdin);

printf("\n "); backgroundgreen(); printf("Update Successfully.");

white(); printf("\n\n%c Do you want to find other employees for Update?", 16);

rectangle1(1,8+2\*n);

gotoxy(2,9+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,9+2\*n); yellow(); printf("OR");

rectangle1(16,8+2\*n);

gotoxy(17,9+2\*n); red(); printf(" No = N,n"); white();

printf("\n\nInput : ");

input: fflush(stdin); scanf("%c", &sid);

system("cls");

if(sid=='Y' || sid=='y' ){

fullname();

goto again6;

}

else if(sid=='N' || sid=='n' ){

table();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto input;

}

}

break;

case 2:

system("cls");

table();

printf("\n\n%c Enter Name of employee that you want to find : ", 16);

blue(); rectangle(50,5+2\*n); white();

gotoxy(51,6+2\*n); again4: fflush(stdin); white(); gets(fullnamefors);

system("cls");

for(i=0;i<n;i++){

if(strcmp(fullnamefors,Em[i].fullname)==0){

updatetable(Em[i]);

fflush(stdin);

gotoxy(38,7); printf("%c Choose your option for update\n", 16);

green();

rectangle(20,9);

rectangle(43,9);

rectangle(66,9);

rectangle(31,12);

rectangle(54,12);

rectangle(42,15);

white();

gotoxy(22,10); printf("1 %c Firstname\n", 26);

gotoxy(45,10); printf("2 %c Lastname\n", 26);

gotoxy(68,10); printf("3 %c Sex\n", 26);

gotoxy(33,13); printf("4 %c Birthday\n", 26);

gotoxy(56,13); printf("5 %c Salary\n", 26);

gotoxy(44,16); printf("6 %c All information\n", 26);

gotoxy(44,18); printf("Input : ");

number1: fflush(stdin); scanf("%d", &m);

white();

switch(m){

case 1:

fflush(stdin);

gotoxy(39,20); printf("Enter new Firstname : "); gets(Em[i].firstname);

break;

case 2:

fflush(stdin);

gotoxy(39,20); printf("Enter new Lastname : "); gets(Em[i].lastname);

break;

case 3:

fflush(stdin);

gotoxy(42,20); printf("Enter new Sex : "); scanf("%c", &Em[i].sex);

break;

case 4:

fflush(stdin);

gotoxy(39,20); printf("Enter new Birthday : "); gets(Em[i].birthday);

break;

case 5:

fflush(stdin);

gotoxy(39,20); printf("Enter new Salary : "); scanf("%f", &Em[i].salary);

break;

case 6:

fflush(stdin);

gotoxy(39,20); printf("Enter new Firstname : "); gets(Em[i].firstname);

fflush(stdin);

gotoxy(39,21); printf("Enter new Lastname : "); gets(Em[i].lastname);

gotoxy(39,22); printf("Enter new Sex : "); scanf("%c", &Em[i].sex);

fflush(stdin);

gotoxy(39,23); printf("Enter new Birthday : "); gets(Em[i].birthday);

fflush(stdin);

gotoxy(39,24); printf("Enter new salary : "); scanf("%f", &Em[i].salary);

break;

default:

gotoxy(44,19); red(); printf("Input again : "); white();

gotoxy(58,19); goto number1;

}

system("cls");

idnotfound='t';

break;

}

else{

idnotfound='f';

}

}

if(idnotfound=='f'){

system("cls");

table();

printf("\a\n "); backgroundred(); printf("Name not found!!\n\n"); white();

printf("Enter Name again: ");

green(); rectangle2(19,6+2\*n);

gotoxy(20,7+2\*n); goto again4;

}

table();

for(i=0;i<n;i++){

fflush(stdin);

printf("\n "); backgroundgreen(); printf("Update Successfully.");

white(); printf("\n\n%c Do you want to find other employees for Update?",16);

rectangle1(1,8+2\*n);

gotoxy(2,9+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,9+2\*n); yellow(); printf("OR");

rectangle1(16,8+2\*n);

gotoxy(17,9+2\*n); red(); printf(" No = N,n"); white();

printf("\n\nInput : ");

input3: fflush(stdin); scanf("%c", &sid);

system("cls");

if(sid=='Y' || sid=='y' ){

fullname();

goto again6;

}

else if(sid=='N' || sid=='n' ){

table();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto input3;

}

}

break;

default:

system("cls"); table();

red(); printf("\a\n\nWe can not accept any number, except 1 and 2 \n"); white();

printf("%c Input again: ", 16);

goto input2;

}

}

else if(yn=='N' || yn=='n'){

system("cls");

table();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto ny1;

}

savetofile();

loading();

char s1,s2,s3;

printf("\n\n%c Do you want to sort list of employee?", 254);

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR");

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white();

printf("\n\n%c Input : ", 26);

sort1: fflush(stdin); scanf("%c", &s1); white(); system("cls");

if(s1=='Y' || s1=='y'){

table();

sortagain:

printf("\n\n%c Do You want to sort by Name or Salary?", 254);

purple();

rectangle(1,7+2\*n);

gotoxy(2,8+2\*n); white(); printf("Sort by Name %c N", 29);

gotoxy(23,8+2\*n); white(); printf("OR"); yellow();

rectangle(26,7+2\*n);

gotoxy(27,8+2\*n); white(); printf("Sort by Salary %c S", 29);

printf("\n\n%c Input : ", 254);

sort2: fflush(stdin); scanf("%c", &s2);

system("cls");

if(s2=='N'){

table();

printf("\n\n%c Do you want to sort ascending or decending?", 30);

//printf("Input -> a <- for ascending or -> d <- for deceding : ");

purple();

rectangle(1,7+2\*n);

gotoxy(5,8+2\*n); white(); printf("Ascending %c a",26);

gotoxy(23,8+2\*n); white(); printf("OR"); yellow();

rectangle(26,7+2\*n);

gotoxy(29,8+2\*n); white(); printf("Descending %c d",26);

printf("\n\n%c Input : ", 254);

sorta3: fflush(stdin); scanf("%c", &s3); system("cls");

system("color F");

if(s3=='a'){

for(i=0;i<n;i++){

for(j=1+i;j<n;j++){

if(strcmp(Em[i].firstname,Em[j].firstname)==1){

temp=Em[j];

Em[j]=Em[i];

Em[i]=temp;

temp1=netSalary[j];

netSalary[j]=netSalary[i];

netSalary[i]=temp1;

}

}

}

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

}

else if(s3=='d'){

for(i=0;i<n;i++){

for(j=1+i;j<n;j++){

if(strcmp(Em[i].firstname,Em[j].firstname)==-1){

temp=Em[j];

Em[j]=Em[i];

Em[i]=temp;

temp1=netSalary[j];

netSalary[j]=netSalary[i];

netSalary[i]=temp1;

}

}

}

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except a=ascending, d=decending \n"); white();

printf("%c Input again : ", 16);

goto sorta3;

}

}

else if(s2=='S'){

table();

printf("\n\n%c Do you want to sort ascending or decending?", 254); purple();

rectangle(1,7+2\*n);

gotoxy(5,8+2\*n); white(); printf("Ascending %c a",26);

gotoxy(23,8+2\*n); white(); printf("OR"); yellow();

rectangle(26,7+2\*n);

gotoxy(29,8+2\*n); white(); printf("Descending %c d",26);

printf("\n\n%c Input : ", 254);

sortd3: fflush(stdin); scanf("%c", &s3); system("cls");

if(s3=='a'){

for(i=0;i<n;i++){

for(j=1+i;j<n;j++){

if(Em[i].salary>Em[j].salary){

temp=Em[j];

Em[j]=Em[i];

Em[i]=temp;

temp1=netSalary[j];

netSalary[j]=netSalary[i];

netSalary[i]=temp1;

}

}

}

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

}

else if(s3=='d'){

for(i=0;i<n;i++){

for(j=1+i;j<n;j++){

if(Em[i].salary<Em[j].salary){

temp=Em[j];

Em[j]=Em[i];

Em[i]=temp;

temp1=netSalary[j];

netSalary[j]=netSalary[i];

netSalary[i]=temp1;

}

}

}

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except a=ascending, d=decending \n"); white();

printf("%c Input again : ", 16);

goto sortd3;

}

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except N=name, S=Salary \n"); white();

printf("%c Input again : ", 16);

goto sort2;

}

}

else if(s1=='N' || s1=='n'){

system("cls");

table();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto sort1;

}

char s\_again;

printf("\n\n%c Do you want to sort employee's list again?", 31);

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR");

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white();

printf("\n\n%c Input : ", 26); s\_again1: fflush(stdin); scanf("%c", &s\_again);

if(s\_again=='Y' || s\_again=='y'){

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

goto sortagain;

}

else if(s\_again=='N' || s\_again=='n'){

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(71,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

purple();

gotoxy(45,1); printf("Emplyee's List after sort");

tablesort();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto s\_again1;

}

savetofile();

loading();

Deleting();

savetofile();

AddEmployee();

savetofile();

getch();

}

}

void findnetsalary(){

for(i=0;i<n;i++){

if(Em[i].salary<=500000) netSalary[i]=Em[i].salary;

else if(Em[i].salary>500000 && 1250000>=Em[i].salary) netSalary[i]=Em[i].salary-(Em[i].salary-500000)\*0.05;

else if(Em[i].salary>1250000 && 8500000>=Em[i].salary) netSalary[i]=Em[i].salary-(Em[i].salary-1250000)\*0.1;

else if(Em[i].salary>8500000 && 12500000>=Em[i].salary) netSalary[i]=Em[i].salary-(Em[i].salary-8500000)\*0.15;

else netSalary[i]=Em[i].salary-(Em[i].salary-12500000)\*0.2;

}

}

void gotoxy1(int n){

short x,y;

int c;

x=2;

y=2;

blue();

for(j=0;j<=n+1;j++){

for(c=0;c<=102;c++){

gotoxy(x+c,y);

printf("%c" ,196);

}

y=y+2;

}

green();

H\_line(1,3,n);

H\_line(6,3,n);

H\_line(18,3,n);

H\_line(35,3,n);

H\_line(50,3,n);

H\_line(57,3,n);

H\_line(70,3,n);

H\_line(87,3,n);

H\_line(105,3,n);

for(c=4;c<=n\*2+1;c+=2){

for(j=1;j<=102;j++){

gotoxy(j,c);

if(j==6) printf(" ");

if(j==18) printf(" ");

if(j==35) printf(" ");

if(j==50) printf(" ");

if(j==57) printf(" ");

if(j==70) printf(" ");

if(j==87) printf(" ");

}

}

red();

for(j=1;j<=102;j++){

gotoxy(j,2);

if(j==6) printf("%c", 194);

if(j==18) printf("%c", 194);

if(j==35) printf("%c", 194);

if(j==50) printf("%c", 194);

if(j==57) printf("%c", 194);

if(j==70) printf("%c", 194);

if(j==87) printf("%c", 194);

}

yellow();

for(c=4;c<=n\*2+2;c+=2){

for(j=1;j<=102;j++){

gotoxy(j,c);

if(j==6) printf("%c", 197);

if(j==18) printf("%c", 197);

if(j==35) printf("%c", 197);

if(j==50) printf("%c", 197);

if(j==57) printf("%c", 197);

if(j==70) printf("%c", 197);

if(j==87) printf("%c", 197);

}

}

red();

for(j=1;j<=102;j++){

gotoxy(j,n\*2+4);

if(j==6) printf("%c", 193);

if(j==18) printf("%c", 193);

if(j==35) printf("%c", 193);

if(j==50) printf("%c", 193);

if(j==57) printf("%c", 193);

if(j==70) printf("%c", 193);

if(j==87) printf("%c", 193);

}

green();

for(j=2;j<=n\*2+4;j+=2){

for(c=2;c<n+2;c++){

gotoxy(1,j);

if(j==2) printf("%c", 218);

if(j==c\*2) printf("%c", 195);

if(j==n\*2+4) printf("%c", 192);

}

}

for(j=2;j<=n\*2+4;j+=2){

for(c=2;c<n+2;c++){

gotoxy(105,j);

if(j==2) printf("%c", 191);

if(j==c\*2) printf("%c", 180);

if(j==n\*2+4) printf("%c", 217);

}

}

white();

}

void rectangle(int l,int j){

short x,y;

int m1,z;

int c;

x=l;

y=j;

m1=x;

z=y;

for(j=0;j<2;j++){

for(c=0;c<=20;c++){

gotoxy(x+c,y);

printf("%c" ,205);

}

y=y+2;

}

gotoxy(m1-1,z); printf("%c", 201);

gotoxy(m1-1,z+1); printf("%c", 186);

gotoxy(m1-1,z+2); printf("%c", 200);

gotoxy(m1+21,z); printf("%c", 187);

gotoxy(m1+21,z+1); printf("%c", 186);

gotoxy(m1+21,z+2); printf("%c", 188);

}

void rectangle1(int l,int j){

blue();

short x,y;

int m1,z;

int c;

x=l;

y=j;

m1=x;

z=y;

for(j=0;j<2;j++){

for(c=0;c<=10;c++){

gotoxy(x+c,y);

printf("%c" ,205);

}

y=y+2;

}

gotoxy(m1-1,z); printf("%c", 201);

gotoxy(m1-1,z+1); printf("%c", 186);

gotoxy(m1-1,z+2); printf("%c", 200);

gotoxy(m1+11,z); printf("%c", 187);

gotoxy(m1+11,z+1); printf("%c", 186);

gotoxy(m1+11,z+2); printf("%c", 188);

}

void rectangle2(int l,int j){

short x,y;

int m1,z;

int c;

x=l;

y=j;

m1=x;

z=y;

for(j=0;j<2;j++){

for(c=0;c<=26;c++){

gotoxy(x+c,y);

printf("%c" ,205);

}

y=y+2;

}

gotoxy(m1-1,z); printf("%c", 201);

gotoxy(m1-1,z+1); printf("%c", 186);

gotoxy(m1-1,z+2); printf("%c", 200);

gotoxy(m1+27,z); printf("%c", 187);

gotoxy(m1+27,z+1); printf("%c", 186);

gotoxy(m1+27,z+2); printf("%c", 188);

}

void rectangle3(int l,int j){

purple();

short x,y;

int m,n,c;

x=l;

y=j;

m=x;

n=y;

for(j=0;j<2;j++){

for(c=0;c<=30;c++){

gotoxy(x+c,y);

printf("%c" ,205);

}

y=y+3;

}

gotoxy(m-1,n); printf("%c", 201);

gotoxy(m-1,n+1); printf("%c", 186);

gotoxy(m-1,n+2); printf("%c", 186);

gotoxy(m-1,n+3); printf("%c", 200);

gotoxy(m+31,n); printf("%c", 187);

gotoxy(m+31,n+1); printf("%c", 186);

gotoxy(m+31,n+2); printf("%c", 186);

gotoxy(m+31,n+3); printf("%c", 188);

}

void listemployee(int r){

findnetsalary();

green();

gotoxy(3,3); printf("No");

gotoxy(11,3); printf("ID");

gotoxy(22,3); printf("Firstname");

gotoxy(39,3); printf("Lastname");

gotoxy(52,3); printf("Sex");

gotoxy(60,3); printf("Birthday");

gotoxy(73,3); printf("Salary(KHR)");

gotoxy(89,3); printf("Netsalary(KHR)");

white();

for(i=0;i<n;i++){

gotoxy(3,r); printf("%d", (i+1));

gotoxy(10,r); printf("%d", Em[i].id);

gotoxy(21,r); printf("%s", Em[i].firstname);

gotoxy(38,r); printf("%s", Em[i].lastname);

gotoxy(53,r); printf("%c", Em[i].sex);

gotoxy(59,r); printf("%s", Em[i].birthday);

gotoxy(75,r); printf("%0.f", Em[i].salary);

gotoxy(91,r); printf("%.0f", netSalary[i]);

r+=2;

}

}

void updatetable(struct Employee em){

int u;

if(em.salary<=500000) netSalary[i]=em.salary;

else if(em.salary>500000 && 1250000>=em.salary) netSalary[i]=em.salary-(em.salary-500000)\*0.05;

else if(em.salary>1250000 && 8500000>=em.salary) netSalary[i]=em.salary-(em.salary-1250000)\*0.1;

else if(em.salary>8500000 && 12500000>=em.salary) netSalary[i]=em.salary-(em.salary-8500000)\*0.15;

else netSalary[i]=em.salary-(em.salary-12500000)\*0.2;

red();

gotoxy(35,1);

for(u=0;u<7;u++){

printf("\3");

}

gotoxy(65,1);

for(u=0;u<7;u++){

printf("\3");

}

yellow(); gotoxy(43,1); printf("Emplyee's information");

blue();

gotoxy(3,3); printf("No");

gotoxy(11,3); printf("ID");

gotoxy(22,3); printf("Firstname");

gotoxy(39,3); printf("Lastname");

gotoxy(52,3); printf("Sex");

gotoxy(60,3); printf("Birthday");

gotoxy(73,3); printf("Salary(KHR)");

gotoxy(89,3); printf("Netsalary(KHR)");

white();

gotoxy(3,5); printf("%d", (i+1));

gotoxy(10,5); printf("%d", em.id);

gotoxy(21,5); printf("%s", em.firstname);

gotoxy(38,5); printf("%s", em.lastname);

gotoxy(53,5); printf("%c", em.sex);

gotoxy(59,5); printf("%s", em.birthday);

gotoxy(75,5); printf("%0.f", em.salary);

gotoxy(91,5); printf("%.0f", netSalary[i]);

gotoxy1(1);

}

void table(){

purple();

gotoxy(38,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(61,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

yellow(); gotoxy(46,1); printf("Emplyee's List");

listemployee(t);

gotoxy1(n);

}

void H\_line(int x,int y,int n){

int c;

for(c=0;c<=n\*2;c++){

gotoxy(x,y+c);

printf("%c" ,179);

}

}

void gotoxy(short x, short y)

{

COORD pos ={x,y};

SetConsoleCursorPosition(GetStdHandle(STD\_OUTPUT\_HANDLE), pos);

}

void fullname(){

for(i=0;i<n;i++){

strcpy(Em[i].fullname,Em[i].firstname);

strcat(Em[i].fullname, " ");

strcat(Em[i].fullname, Em[i].lastname);

}

}

void tablesort(){

gotoxy1(n);

listemployee(t);

}

void Deleting(){

char Dem;

char Emfullname[30];

int Del=0,idorname,idfordelete;

struct Employee temp2;

for(i=0;i<n;i++){

strcpy(Em[i].fullname,Em[i].firstname);

strcat(Em[i].fullname, " ");

strcat(Em[i].fullname, Em[i].lastname);

}

printf("\n\n%c Do you want to Delete any employee?", 30);

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR");

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white();

printf("\n\n%c Input : ", 26);

sort4: fflush(stdin); scanf("%c", &Dem);

if(Dem=='Y' || Dem=='y'){

system("cls");

again\_:

table();

printf("\n\n%c Choose option : ", 31);

purple();

rectangle(1,7+2\*n);

gotoxy(2,8+2\*n); white(); printf("1%c Delete by Name", 29);

gotoxy(23,8+2\*n); white(); printf("OR"); purple();

rectangle(26,7+2\*n);

gotoxy(27,8+2\*n); white(); printf("2%c Delete by ID", 29);

printf("\n\n%c Input : ", 254);

fflush(stdin); again5: scanf("%d", &idorname);

switch(idorname){

case 1:

system("cls");

table();

printf("\n\n%c Enter employee's fullname that you want to delete : ", 16); blue(); rectangle2(54,5+2\*n); white();

gotoxy(55,6+2\*n); entername: fflush(stdin); gets(Emfullname);

for(i=0;i<n;i++){

system("color F");

if(strcmp(Em[i].fullname,Emfullname)==0){

Del=1;

for(j=i;j<n-1;j++){

temp2=Em[j];

Em[j]=Em[j+1];

Em[j+1]=temp2;

}

n--;

break;

}

}

if(Del==0){

system("cls");

table();

printf("\a\n "); backgroundred(); printf("Name not found!!\n\n"); white();

printf("Enter Name again: ");

green(); rectangle2(19,6+2\*n);

gotoxy(20,7+2\*n); white(); goto entername;

}

else{

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(45,1); yellow(); printf("Employee's list after Deleting");

tablesort();

printf("\n\n "); backgroundgreen(); printf("Delete Successfully"); white();

}

break;

case 2:

//system("color F");

system("cls");

table();

printf("\n\n%c Enter employee's ID that you want to delete : ", 16); rectangle1(48,5+2\*n);

gotoxy(49,6+2\*n); enterID: fflush(stdin); white(); scanf("%d", &idfordelete);

system("color F");

for(i=0;i<n;i++){

if(Em[i].id==idfordelete){

Del=1;

for(j=i;j<n-1;j++){

temp2=Em[j];

Em[j]=Em[j+1];

Em[j+1]=temp2;

}

n--;

break;

}

}

if(Del==0){

system("cls");

table();

printf("\a\n "); backgroundred(); printf("ID not found!!\n\n");

gotoxy(2,7+2\*n); white(); printf("Please input ID again: "); rectangle1(25,6+2\*n);

gotoxy(26,7+2\*n);

white(); goto enterID;

}

else{

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(45,1); red(); printf("Employee's list after Deleting");

tablesort();

printf("\n\n "); backgroundgreen(); printf("Delete Successfully"); white();

}

break;

default:

system("cls"); table();

red(); printf("\a\n\nWe can not accept any number, except 1 and 2 \n"); white();

printf("%c Input again: ", 16);

goto again5;

}

}

else if(Dem=='N' || Dem=='n'){

system("cls");

red();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(45,1); blue(); printf("Employee's list after Deleting");

tablesort();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n"); white();

printf("%c Input again: ", 16);

goto sort4;

}

if(Del==0){

printf("\n");

}

else{

char name1;

for(i=0;i<n;i++){

fflush(stdin);

printf("\n%c Do you want to find other employees for Delete?", 31);

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR");

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white(); printf("\n\n%c Input : ", 30);

input1: fflush(stdin); scanf("%c", &name1);

if(name1=='Y' || name1=='y' ){

system("cls");

Del=0;

goto again\_;

}

else if(name1=='N' || name1=='n'){

system("cls");

red();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(45,1); blue(); printf("Employee's list after Deleting");

tablesort();

break;

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y=yes,N=no \n");

printf("%c Input again: ", 16);

white(); goto input1;

}

}

}

}

void AddEmployee(){

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(45,1); red(); printf("Employee's list after Deleting");

tablesort();

char add;

int ne,k,q;

int w=n;

printf("\n\n%c Do you want to add Employee? ", 31);

rectangle1(1,7+2\*n);

gotoxy(2,8+2\*n); green(); printf("Yes = Y,y");

gotoxy(13,8+2\*n); white(); printf("OR");

rectangle1(16,7+2\*n);

gotoxy(17,8+2\*n); red(); printf(" No = N,n"); white();

printf("\n\n%c Input : ", 30);

fflush(stdin); inputs: scanf("%c", &add);

if(add=='Y' || add=='y'){

system("cls");

table();

printf("\n\nHow many employee that you want to add?");

rectangle1(1,7+2\*n);

white(); gotoxy(2,8+2\*n); addem: fflush(stdin); scanf("%d", &ne);

system("cls");

if(ne+n>10){

table();

white(); printf("\n\n%c You can not enter ",16); red(); printf("%d", ne); white(); printf(" because it makes more than 10 employees.");

printf("\n\n%c Enter again: ", 31); rectangle1(16,7+2\*n); white();

gotoxy(17,8+2\*n); goto addem;

}

else{

n=w+ne;

// q=ne;

for(k=0;k<ne;k++){

green(); rectangle(1,0); gotoxy(3,1); purple(); printf(" %c Employee #%d ", 2,(w+1+k)); white();

fflush(stdin);

printf("\n\n%c Enter ID : ", 16); again1\_: scanf("%d", &Em[w+k].id);

i=w+k;

for(j=1;j<=w+k;j++){

if(Em[w+k].id==Em[i-j].id){

backgroundred(); printf("This ID is the ID of the employee #%d, please enter a different ID.\n", i-j+1);

white(); printf("\a%c Input another ID: ", 16);

goto again1\_;

}

}

fflush(stdin);

printf("%c Enter Firstname : ", 16); gets(Em[w+k].firstname);

fflush(stdin);

printf("%c Enter Lastname : ", 16); gets(Em[w+k].lastname);

fflush(stdin);

printf("%c Enter Sex : ", 16); scanf("%c", &Em[w+k].sex);

fflush(stdin);

printf("%c Enter Birthday : ", 16); gets(Em[w+k].birthday);

fflush(stdin);

printf("%c Enter Salary (KHR) : ", 16); scanf("%f", &Em[w+k].salary);

system("cls");

}

findnetsalary();

red();

gotoxy(35,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(72,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

blue();

gotoxy(43,1); printf("Employee's list after Adding");

tablesort();

}

}

else if(add=='N' || add=='n'){

system("cls");

blue();

gotoxy(37,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

gotoxy(75,1);

for(i=0;i<7;i++){

printf("%c", 4);

}

green();

gotoxy(45,1); printf("Employee's list after Deleting");

tablesort();

}

else{

system("cls"); table();

red(); printf("\a\n\nWe can not accept any character, except Y,y=yes,N,n=no \n");

white(); printf("%c Input again: ", 16);

goto inputs;

}

}

void savetofile(){

FILE \*fp;

fp = fopen("employee.txt", "wb");

for(i=0;i<n;i++){

fwrite(&Em[i], sizeof(struct Employee), 1, fp);

}

/\*if(fwrite != 0)

printf("contents to file written successfully !\n");

else

printf("error writing file !\n");\*/

fclose(fp);

}

void loading(){

FILE \*fp;

fp = fopen("employee.txt", "r");

i=0;

while(fread(&em, sizeof(struct Employee), 1, fp)){

i++;

}

fclose(fp);

}