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1  #include<stdio.h>
2  #include<bits/stdc++.h>
3  #include<stdlib.h>
4  #include<string.h>
5  #include<conio.h>
6  #include<windows.h>
7  #include<time.h>
8  #include<iomanip>
9  ///#include<ctype.h>
10 ///#define max 50
11 using namespace std;
12 void intro();
13 void editsalary(int);
14 void gotoXY(int X,int Y)
15 {
16     COORD pos = {X,Y};
17     SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),pos);
18 }
19 class emp
20 {
21 public:
22     string name;
23     string id;
24     string address;
25     int age;
26     int experience;
27     int salary,contact,grade,hour,sal;
28     int tax;
29     int MealAllowance;
30     int TransportAllowance;
31     int MedicalAllowance;
32     int grosspay;
33 };
34 int total=0;
35 emp e[100];
36 void empdata()
37 {
38     int sal,grade,h,user=0,bonus,MealA,MedicalA,TransportA,TAX;
39     cout<<"How many employees data do you want to enter?"<<endl;
40     cin>>user;
41     for(int i=total; i<total+user; i++)
42     {
43         cout<<"Enter data of employee "<<i+1<<endl<<endl;
44         cout<<"Enter employee name: ";
45         getline(cin>> std::ws,e[i].name);
46         cout<<"Enter id: ";
47         cin>>e[i].id;
48         cout<<"Enter address: ";
49         getline(cin>> std::ws,e[i].address);
50         cout<<"Enter contact: ";
51         cin>>e[i].contact;
52         cout<<"Enter age : ";
53         cin>>e[i].age;
54         cout<<"Years of experience : ";
55         cin>>e[i].experience;
56         cout<<"Enter Working Hours : ";
57         cin>>e[i].hour;
58         cout << "Enter Employee Grade: ";
59         cin >> e[i].grade;
60         TAX = 0.04 * sal;
61         MealA = 300;
62         MedicalA = 300;
63         TransportA = 300;
64         if(grade > 7)
65         {
66             bonus = sal* 50.0/100.0;

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67  sal = sal + bonus;
68  }
69  else
70  {
71  bonus = sal * 25.0/100.0;
72  sal = sal + bonus;
73  }
74  e[i].salary = sal;
75  e[i].tax=TAX;
76  e[i].MealAllowance = MealA;
77  e[i].MedicalAllowance = MedicalA;
78  e[i].TransportAllowance = TransportA;
79  e[i].grosspay = (sal+MealA+MedicalA+TransportA)-TAX;
80  getch();
81  }
82  total=total+user;
83  }
84  void show()
85  {
86  if(total!=0)
87  {
88  for(int i=0; i<total; i++)
89  {
90  cout<<"Data of employee "<<i+1<<endl;
91  cout<<"Name: "<<e[i].name<<endl;
92  cout<<"ID: "<<e[i].id<<endl;
93  cout<<"Address: "<<e[i].address<<endl;
94  cout<<"Contact: "<<e[i].contact<<endl;
95  cout<<"Working Hours: "<<e[i].hour<<endl;
96  cout<<"Employee Grade : "<<e[i].grade<<endl;
97  cout<<"Employee age : "<<e[i].age<<endl;
98  cout<<"Years of experience : "<<e[i].experience<<endl;
99  //cout<<"Salary: "<<e[i].salary<<endl;
100  cout<<"Total Gross Pay : "<<e[i].grosspay<<endl;
101  }
102  }
103  else
104  {
105  cout<<"No data is entered"<<endl;
106  }
107  }
108  void search()
109  {
110  if(total!=0)
111  {
112  string id;
113  cout<<"Enter id of employee which you want to search"<<endl;
114  cin>>id;
115  for(int i=0; i<total; i++)
116  {
117  if(e[i].id==id)
118  {
119  cout<<"Data of employee "<<i+1<<endl;
120  cout<<"Name: "<<e[i].name<<endl;
121  cout<<"ID: "<<e[i].id<<endl;
122  cout<<"Address: "<<e[i].address<<endl;
123  cout<<"Contact: "<<e[i].contact<<endl;
124  cout <<"Grade: "<<e[i].grade<<endl;
125  cout<<"Salary: "<<e[i].grosspay<<endl;
126  break;
127  }
128  if(i==total-1)
129  {
130  cout<<"No such record found"<<endl;
131  }
132  }

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133     }
134     else
135     {
136         cout<<"No data is entered"<<endl;
137     }
138 }
139 void update()
140 {
141     if(total!=0)
142     {
143         string id;
144         cout<<"Enter id of employee which you want to update"<<endl;
145         cin>>id;
146         for(int i=0; i<total; i++)
147         {
148             if(e[i].id==id)
149             {
150                 cout<<"Old data of employee "<<i+1<<endl;
151                 cout<<"Name: "<<e[i].name<<endl;
152                 cout<<"ID: "<<e[i].id<<endl;
153                 cout<<"Address: "<<e[i].address<<endl;
154                 cout<<"Contact: "<<e[i].contact<<endl;
155                 cout<<"Salary: "<<e[i].salary<<endl;
156                 cout<<"\nEnter new data"<<endl;
157                 cout<<"Enter employee name: ";
158                 getline(cin>> std::ws,e[i].name);
159                 cout<<"Enter id: ";
160                 cin>>e[i].id;
161                 cout<<"Enter address: ";
162                 getline(cin>> std::ws,e[i].address);
163                 cout<<"Enter contact: ";
164                 cin>>e[i].contact;
165                 cout<<"Enter Grade: ";
166                 cin>>e[i].grade;
167                 break;
168             }
169             if(i==total-1)
170             {
171                 cout<<"No such record found"<<endl;
172             }
173         }
174     }
175     else
176     {
177         cout<<"No data is entered"<<endl;
178     }
179 }
180 void editsalary()
181 {
182     int i,sal,grade,bonus,h;
183     gotoXY(10,18);
184     cout<<"Enter new Salary ";
185     cin>>sal;
186     cout<<"Enter Working Hours : ";
187     cin>>h;
188     sal = h*300;
189     e[i].hour = h;
190     cout << "Enter Employee Grade: ";
191     cin >> grade;
192     if(grade > 15)
193     {
194         bonus = sal* 50.0/100.0;
195         sal = sal + bonus;
196     }
197     else
198     {

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199 bonus = sal * 25.0/100.0;
200 sal = sal + bonus;
201 }
202 cout<< "New salary"<<endl;
203 e[i].salary=sal;
204 // e[i].sal = salary;
205 cin >> e[i].salary;
206 }
207 void del()
208 {
209     if(total!=0)
210     {
211         int press;
212         cout<<"Press 1 to delete specific record"<<endl;
213         cout<<"Press 2 to delete full record"<<endl;
214         cin>>press;
215         if(press==1)
216         {
217             string id;
218             cout<<"Enter id of employee which you want to delete"<<endl;
219             cin>>id;
220             for(int i=0; i<total; i++)
221             {
222                 if(e[i].id==id)
223                 {
224                     e[i].name=e[i+1].name;
225                     e[i].id=e[i+1].id;
226                     e[i].address=e[i+1].address;
227                     e[i].contact=e[i+1].contact;
228                     e[i].salary=e[i+1].salary;
229                     total--;
230                     cout<<"Your required record is deleted"<<endl;
231                     break;
232                 }
233                 if(i==total-1)
234                 {
235                     cout<<"No such record found"<<endl;
236                 }
237             }
238         }
239         else if(press==2)
240         {
241             total=0;
242             cout<<"All record is deleted"<<endl;
243         }
244         else
245         {
246             cout<<"Invalid Input"<<endl;
247         }
248     }
249     else
250     {
251         cout<<"No data is entered"<<endl;
252     }
253 }
254 void intro()
255 {
256     gotoXY(27,4);
257     printf("EMPLOYEE MANAGEMENT SYSTEM");
258     gotoXY(25,5);
259     for(int i=0; i<29; i++) printf("%c",196);
260     gotoXY(20,8);
261     printf("Designed and Programmed by:");
262     gotoXY(20,9);
263     for(int i=0; i<29; i++) printf("%c",196);
264     gotoXY(20,11);

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265 printf("SHERLOCK\n");
266 gotoXY(20,13);
267 printf("Department of Computer Science and Engineering\n");
268 gotoXY(20,15);
269 printf("Submitted To: Muhammad Nazim Uddin SIR\n");
270 gotoXY(24,20);
271 printf("Press Any key to continue...");
272 getch();
273 }
274 int main()
275 {
276 intro();
277 system("COLOR 0e");
278 system("cls");
279 SetConsoleCP(437);
280 SetConsoleOutputCP(437);
281 int bar1 = 177, bar2 = 219;
282 cout << "\n\n\n\t\t\tloading...";
283 cout << "\n\n\n\t\t\t\t\t";
284 for(int i = 0; i < 25; i++)
285 cout << (char)bar1;
286 cout << "\r";
287 cout << "\t\t\t\t\t";
288 for(int i = 0; i < 25; i++)
289 {
290 cout << (char)bar2;
291 Sleep(150);
292 }
293 cout << "\n\t\t\t\t\t" << (char)1 << ":";
294 system("Pause");
295 cout<<"\n\n\t\tEmployee Management System"<<endl;
296 string username,password;
297 cout<<"\n\n\n\t\t*****Signup*****"<<endl;
298 cout<<"\t\tEnter new username: ";
299 cin>>username;
300 cout<<"\t\tEnter new password: ";
301 cin>>password;
302 cout<<"\t\tYour new id is creating please wait";
303 for(int i=0; i<6; i++)
304 {
305 cout<<". ";
306 Sleep(500);
307 }
308 cout<<"\n\t\tYour id created successfully";
309 Sleep(2000);
310 start:
311 system("CLS");
312 string usrn,pswd;
313 cout<<"\n\n\t\tEmployee Management System"<<endl;
314 cout<<"\n\n\n\t\t LOGIN"<<endl;
315 cout<<"\t\tEnter username: ";
316 cin>>usrn;
317 cout<<"\t\tEnter password: ";
318 cin>>pswd;
319 if(usrn==username&&pswd==password)
320 {
321 system("CLS");
322 char ch;
323 while(1)
324 {
325 cout<<"\n\nPress 1 to enter data"<<endl;
326 cout<<"Press 2 to show data"<<endl;
327 cout<<"Press 3 to search data"<<endl;
328 cout<<"Press 4 to update data"<<endl;
329 cout<<"Press 5 to delete data"<<endl;
330 cout<<"Press 6 to logout"<<endl;

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331 cout<<"Press 7 to Edit Salary"<<endl;
332 cout<<"Press 8 to Exit"<<endl;
333 ch=getch();
334 system("CLS");
335 switch(ch)
336 {
337 case '1':
338 empdata();
339 break;
340 case '2':
341 show();
342 break;
343 case '3':
344 search();
345 break;
346 case '4':
347 update();
348 break;
349 case '5':
350 del();
351 break;
352 case '6':
353 goto start;
354 break;
355 case '7':
356 editsalary();
357 break;
358 case '8':
359 exit(0);
360 break;
361 default:
362 cout<<"\aInvalid Input"<<endl;
363 break;
364 }
365 }
366 }
367 else if(usrn!=username)
368 {
369 cout<<"\t\t\aInvalid username please try again";
370 Sleep(3000);
371 goto start;
372 }
373 else if(pswd!=password)
374 {
375 cout<<"\t\t\aInvalid password please try again";
376 Sleep(3000);
377 goto start;
378 }
379 else
380 {
381 cout<<"\t\t\aInvalid username and password";
382 Sleep(3000);
383 goto start;
384 }
385 }
```