```
#include<iostream>
1
2
    #include<stdlib.h>
3
    #include<math.h>
4
    #include<string>
5
    #include<fstream>
6
    #include<windows.h>
    #include<graphics.h>
    #include<conio.h>
8
9
    #include<string.h>
10
    #include<iomanip>
11
    #include<time.h>
12
13
    using namespace std;
14
15
    void load();
16
17
    int id[20][20];
18
    long int total=0;
    void cardpay()
19
20
       system("cls");
21
22
       int rnum, ernum;
23
       char cardno[20];
24
       card number:";
25
       cin>>cardno;
26
       int c=0;
27
       do
28
          if(c!=0)
29
             cout<<"Invalid OTP."<<endl;</pre>
30
          srand(time(NULL));
31
          registered mobile number. (ASSUME and enter the same on screen) "<<endl;
33
          rnum=rand();
          cout<<"\t\t\t\t\t\t\t\t\tYour OTP is "<<rnum<<endl;</pre>
34
35
          cout<<"\t\t\t\t\t\t\t\t\tEnter OTP:";</pre>
36
37
          cin>>ernum;
38
          c++:
39
       } while (rnum!=ernum);
40
       system("cls");
41
    \t\tPAYMENT SUCCESSFULL"<<endl;</pre>
       cout<<"\t\t\t\t\t\t\t\t\t\t\t\t\t\quad ur agent ARUN</pre>
42
    P.N. +91-8660397320."<<endl;
43
       delay(5000);
44
4.5
    void cashpay()
46
47
       system("cls");
       system("COLOR 80");
48
       49
    placed successfully."<<endl;
       \mathtt{cout}<<"\t\t\t\t\t\t\t\t} ur product will be delivered within 10 days by our agent
50
    HARIKESH B.G. +91-9380351145."<<endl;
51
       delay(5000);
52
53
    void fetchdata()
54
55
       char ch=254;
56
       system("cls");
       delay(500);
57
5.8
59
       delay(500);
60
    FETCHING YOUR DATA...."<<endl;
for(int i=0;i<67500;i++);</pre>
61
62
    cout<<"
      ";
       for (int i=0;i<30;i++)</pre>
63
64
65
          Sleep (200);
          system("COLOR FC");
66
67
          cout << ch;
68
       system("cls");
69
70
71
       system("cls");
72
73
    class welcome
```

```
74
75
         protected:char user id[20];
76
                  char password[20];
77
                  char ch;
78
                  int i=0;
79
         public:void read()
80
81
                    system("COLOR F0");
82
                    ID
                     :
83
                    cin>>user id;
84
                    cin.ignore();
85
                    cout<<endl<<endl<<"\t\t\t\t\t\t\t\t\t\tInstruction:-"<<endl;</pre>
86
                    cout<<"\t\t\t\t\t\t\t\t\t\t\t\2.password should not contains any spaces."<<endl;</pre>
87
                    cout<<"\t\t\t\t\t\t\t\t\t\t\t\t\t\and</pre>
88
     one special characters."<<endl;
89
                   cout<<"\t\t\t\t\t\t\t\t\t\tPassword</pre>
90
                   cin>>password;
91
92
     class purchase:public welcome
93
94
95
         protected:int idindex;
                  int id[10][10];
96
97
         public: friend void addtohistory(purchase &pu);
98
                friend void displaypurchase (purchase &pu);
99
                friend void viewhistory(purchase &pu);
100
101
               void readpurchase()
102
103
                   purchase p;
                   //system("COLOR 40");
104
105
                       char filehistory[30];
106
                       char idchoice;
107
                       p.idindex=0;
108
                       int cost=0;
109
                       do
110
111
                           cout<<endl<<endl<<endl;</pre>
                           cout<<"\t\t\t\t\t\tEnter item-id:";</pre>
112
113
                           cin>>p.id[p.idindex][0];
                           cout<<"\t\t\t\t\t\t\tQuantity:";</pre>
114
115
                           cin>>p.id[p.idindex][1];
116
                           cin.ignore();
117
                           p.idindex++;
118
                           cout<<endl<<"\t\t\t\t\t\t\tDo you want to continue</pre>
     shopping:....(y/n)?";
119
                           cin>>idchoice;
                        }while (idchoice=='y'||idchoice=='Y');
120
                       system("cls");
system("COLOR 03");
121
122
                       system("cls");
123
124
                       cout<<endl<<endl<<endl<<endl<<endl<<endl<<endl<<endl<;</pre>
                       125
126
                       cin>>p.password;
                       system("cls");
strcpy(filehistory,p.password);
127
128
129
                       addtohistory(p);
                       130
131
                       displaypurchase(p);
132
     cout<<"\t\t\t\t\t\t\t</pre>
                "<<endl;
133
     cout<<"\t\t\t\t\t\t\t\t|TOTAL</pre>
     :"<<left<<setw(12)<<total<<"|"<<endl;
                       cout<<"\t\t\t\t\t\t\t|G.S.T. (GOODS AND SERVICE</pre>
134
                                                      |"<<endl;
     TAXES)
                                           ·10%
135
                       cout<<"\t\t\t\t\t\t\t|GRAND</pre>
     TOTAL.
     :"<<left<<setw(12)<<total+(total*10/100)<<"|"<<endl;
136
     cout<<"\t\t\t\t\t\t\t\t|</pre>
      _____| "<<endl;
137
                       PAYMENT...(y/n):";
138
                       char yp;
139
                       cin>>yp;
140
                       int pmod;
                       if(yp=='y'||yp=='Y')
141
142
                           system("cls");
system("COLOR F0");
143
144
```

```
145
                         PAYMENYT\t\t\t\t\t\t\t\t\t2.CASH ON
     payment:";
146
                         cin>>pmod;
                          switch(pmod)
147
148
149
                             case 1 :cardpay();
150
                                    break;
151
                             case 2 :cashpay();
152
                                    break;
153
154
155
                      else
156
                          cout<<"\t\t\t\t\t\t\tThank you for using our application."<<endl;</pre>
157
158
159
                      system("cls");
160
                      161
     Do you want to view your purchase history...(y/n):";
162
                      char phistory;
163
                      cin>>phistory;
                      system("cls");
164
                      if (phistory=='y'||phistory=='Y')
165
166
167
                          cout<<endl<<"\t\t\t\t\t\t\t\t\tPURCHASE HISTORY:"<<endl;</pre>
168
                          viewhistory(p);
169
170
                      delay(15000);
171
172
173
    class items
174
175
        public:
                 char itemname[25];
176
                 float itemid;
177
                 float itemprice;
178
                 float itemrating;
179
                 void display()
180
181
                   fstream fp;
                   fp.open("itemfeed.dat");
182
183
                   items it;
184
                   fp.read((char*)&it, sizeof(it));
185
                   while(!fp.eof())
186
187
     cout << "\t\t\t\t\t\t\t
     setw(13)<<it.itemprice<<"|"<<left<<setw(17)<<it.itemrating<<"|"<<endl;</pre>
188
     cout<<"\t\t\t\t\t\t\t\t\t\t\</pre>
                                                                           "<<endl;
189
                      fp.read((char*)&it, sizeof(it));
190
191
                   fp.close():
192
              friend void displaypurchase(purchase &pu);
193
194
195
     };
196
197
     class registeruser:public welcome
198
199
        protected:char name[30],contno[20],mailid[30];
               char address[50];
200
        public:void readuser()
201
202
203
                  fstream file1;
204
                  file1.open("userdata.dat",ios::app);
205
                  file1.close();
206
                  registeruser r;
207
                  system("COLOR F1");
                  208
209
                   cout<<"\t\t\tNAME
                   cin>>name;
210
211
                   cout<<"\t\t\tMOBILE NUMBER</pre>
212
                   do
213
214
                      cout<<"+91 ";
215
                      cin>>contno;
216
                      if(strlen(contno)!=10||contno[0]==0)
217
                          cout<<"\t\t\tInvalid contact number"<<endl;</pre>
218
                                                                    ۳,
                          cout<<"\t\t\tRe-enter</pre>
219
```

```
220
221
                          else
222
                              break;
223
                      }while(1);
224
                      cout<<"\t\t\tADDRESS</pre>
                                                                :
                                                                        ";
225
                      cin>>address;
226
                      cout<<"\t\t\tE-MAIL ID</pre>
                                                                         ....
                      int c=0;
227
228
                      int k, l, i;
229
                      do
230
231
                          if(c!=0)
232
                              cout<<"\t\tInvalid e-mail id. Please enter valid e-mail id"<<endl;</pre>
233
234
                              cout<<"\t\t\tE-MAIL ID</pre>
                                                                        :
235
236
                          cin>>mailid;
237
238
                          k=bruteforce(mailid, "@gmail.com");
      amail.com
239
                          l=bruteforce(mailid, "@yahoo.com");
                          i=bruteforce (mailid, "@sit.ac.in");
241
                      }while(k&&l&&i);
242
                      read();
243
                      ifstream file;
                      file.open("userdata.dat",ios::in);
244
                      file.read((char *)&r, sizeof(r));
245
246
                      int check existance=0;
247
                      if(!file.eof())
248
                          file.close();
249
250
                          do
251
252
                              if(check existance==1)
253
                                  read();
254
                              check existance=1;
255
                              int k=checkuser_id();
                              256
     existance of the user_id
257
                              if(k==1)
                              cout<<"\t\t\tUser ID is already exist."<<endl<<"Please enter</pre>
258
      another User ID."<<endl;
259
                              int l=checkpassword();
260
                              cout<<"l="<<1; //calling checkpassword() to check the</pre>
261
                              if(1==1)
                              cout<<"\t\t\tPassword is already exist."<<endl<<"Please enter</pre>
262
      another password."<<endl;</pre>
263
                          }while(!(k||1));
264
265
                      file.close();
266
267
268
269
                int checkpassword()
      existence of the password
270
                {
271
                     registeruser r1;
272
                     ifstream f;
                    f.open("userdata.dat");
int found=0;
273
274
                     f.read((char *)&r1, sizeof(r1));
275
276
                     while(!f.eof())
277
278
                          if(strcmp(password, r1.password) == 0)  //comparing the user entered
279
                          {
280
                              found=1;
281
                              break;
282
                          f.read((char *)&r1, sizeof(r1));
283
284
285
                     f.close();
286
                     return(found);
287
                                            //member function to check the existance of the
288
                 int checkuser id()
289
290
                    registeruser r2;
291
                     int flag=0;
292
                     ifstream f;
                     f.open("userdata.dat");
293
```

```
294
                 int found=0;
                 295
296
                 while(!f.eof())
297
298
                     flag++;
299
                     user id with the user_id present in the file
300
301
                         found=1;
302
                         break;
303
304
                      f.read((char *)&r2, sizeof(r2));  //reading the data
305
306
                 if(flag==0)
307
308
                 f.close();
309
                 return(found);
310
311
              int bruteforce(char t[], char p[])
312
             {
313
                  int n=strlen(t);
314
                  int m=strlen(p);
                    m or @yahoo.com or @sit.ac.in]
     pattern [@gmail
315
                  int i;
                  for (int i=0;i<=n;i++)</pre>
316
317
318
                      j=0;
                      while ((j \le m) \&\& (p[j] == t[i+j])) //checking for string match
319
320
                         j++;
321
                      if((j==m) &&(i==n-m))
322
                        return(0);
323
                  }
                  return(1);
324
325
326
327
    class login:public registeruser
328
        protected:
329
330
        public:int searchdata()
331
332
                 int found;
333
                 read();
334
                 fetchdata();
                  //cout<<"Userid="<<user_id<<endl<<"Password:"<<password;
335
                       y(5000);
336
337
                 login 1;
338
                 ifstream f;
                 f.open("userdata.dat",ios::in);
339
340
                 found=0;
341
                 f.read((char *)&l, sizeof(l));
                 while(!f.eof())
342
343
344
     if((strcmp(password, l.password) == 0) && (strcmp(user_id, l.user_id) == 0))
//comparing
345
                         system("cls");
346
347
     1<<endl;</pre>
348
                         ."<<endl;
349
                         delay(8000);
350
                         found++;
351
                         f.close();
352
                         return(1);
353
                       f.read((char *)&l, sizeof(l)); //reading the txta
354
355
                 if (found==0)
356
357
                     f.close();
358
359
                     return (-1);
360
361
              }
362
    };
    void load()
363
364
        char ch=219;
365
366
        system("cls");
367
368
```

```
369
        delav(1000);
        370
     YOUR ACCOUNT...."<<endl;
371
        for (int i=0; i<67500; i++);</pre>
372
        cout<<"
                                                                               \t";
373
        for (int i=0; i<30; i++)</pre>
374
375
            Sleep (200);
376
            system("COLOR OB");
377
            cout << ch;
378
379
        system("cls");
        380
     ACCOUNT HAS BEEN SUCESSFULLY CREATED...\n";
        delay(3000);
381
        system("cls");
382
383
384
     void loginload()
385
386
        char ch=219:
        system("cls");
387
388
        YOU IN...."<<endl;
389
        for (int i=0; i < 67500; i++);</pre>
390
        cout<<
     \t\t";
        for (int i=0;i<27;i++)</pre>
391
392
393
            Sleep (200);
            system("COLOR 03");
394
395
            cout << ch;
396
        system("cls");
397
        398
     HAVE SUCCESSFULLY LOGGED IN TO YOUR ACCOUNT....."<<end1;
399
        delay(3000);
400
        system("cls");
401
402
     void displaypurchase (purchase &pu)
403
404
        fstream fp;
405
        items it;
406
     cout<<"\t\t\t\t\t\t\t</pre>
               "<<endl;
        cout<<"\t\t\t\t\t\t\t| ID |
407
                                        NAME
                                                  | PRICE (in Rs.) | RATTING (out of
     5) |Quantity|cost(in Rs.)|"<<endl;</pre>
408
     cout<<"\t\t\t\t\t\t\t\t|__</pre>
              "<<endl;
409
        for (int i=0; i < (pu.idindex+1); i++)</pre>
410
411
             fp.open("itemfeed.dat");
             fp.read((char*)&it, sizeof(it));
412
413
             while(!fp.eof())
414
415
                if(it.itemid==pu.id[i][0])
416
417
                   int cost;
418
                   cost=it.itemprice*pu.id[i][1];
419
     tw(13) << it.itemprice << "|" << left << setw(17) << it.itemrating << "|" << left << setw(8) << pu.id[i][1] << "</pre>
     | "<<setw(12) <<cost<<" | "<<endl;;
420
     cout<<"\t\t\t\t\t\t\t|____|
             |"<<endl;
421
                   total=total+cost;
                       t<<"Total ===="<<total<<<u>endl</u>
422
423
424
425
                   fp.read((char*)&it, sizeof(it));
426
427
             fp.close();
428
429
430
     void addtohistory(purchase &pu)
431
432
        char fileopen[30];
433
        strcpy(fileopen, pu.password);
        strcat(fileopen,".dat");
434
435
        ofstream fp;
        fp.open(fileopen, ios::app);
436
437
        fp.write((char *)&pu, sizeof(pu));
```

```
fp.close();
438
439
440
     void viewhistory(purchase &pu)
441
442
         int count=0;
         char file[30];
443
444
         strcpy(file, pu.password);
         strcat(file, ".dat");
445
446
         purchase phist;
447
         ifstream fp1;
448
         fp1.open(file, ios::in);
449
         if(fp1.eof())
450
            cout<<"File not opened..";</pre>
         fpl.read((char *)&phist, sizeof(phist));
451
452
         while(!fp1.eof())
453
454
            count++;
455
            displaypurchase (phist);
456
            fp1.read((char *) &phist, sizeof(phist));
457
458
         fp1.close();
459
         if(count==0)
           cout<<"No purchase yet..";</pre>
460
461
462
463
     int main()
464
465
        int ch;
        system("COLOR FC");
466
467
     468
     a[]={'*','*','*','*','*','*','s','H','O','P','P','E','R','-','S','P','O','T','*','*','*','*','
     * ' };
469
         for (int i=0; i<22; i++)</pre>
470
471
            delay(500);
472
            cout<<a[i];</pre>
473
474
         delay(2000);
475
         system("COLOR F0");
        system("cls");
cout<<"\n\n\n\n\n\n\n\n\n\n\t\t\t\t\t\t\t\t</pre>
476
477
     Enter your choice:";
478
        cin>>ch;
        system("cls");
479
        switch (ch)
480
481
482
            case 2:do
483
484
                     login 1;
                     int dataexist;
485
486
                     dataexist=1.searchdata();
     searchdata()
487
                     if(dataexist==-1)
488
489
                         system("cls");
490
     cout<<endl<<endl<<endl<<endl<<endl<<endl<<tr>or
     PASSWORD" << endl;
491
                         cout<<"\t\t\t\t\t\t\t\t\t\t\t\tEnter valid</pre>
     details: "<<endl<<endl<<endl<<endl<<endl<<endl<
492
493
                     else
494
                       break;
495
                  } while (1);
496
                  loginload();
497
                  break;
498
499
            500
                   exit(0);break;
501
            case 1:registeruser r;
502
                  r.readuser();
503
                  ofstream f("userdata.dat",ios::app); //opening the file in append mode
504
                  f.write((char *)&r, sizeof(r));
505
                  f.close();
                  load();
506
507
                  break;
508
         system("cls");
509
```

```
system("COLOR F0");
510
                                       511
                      SHOPPER-SPOT..."<<endl;
                         512
513
514
515
516
                        "<<endl;
                                                                                                                                                                                                                                                        | PRICE(in Rs.) | RATTING(out of
517
                        5) | " << endl;
518
                        cout<<"\t\t\t\t\t\t\t\t\t|___</pre>
                                                                                                                                               ____|
                          i.display();
purchase pur;
519
520
                                    pur.readpurchase();
521
522
                                       system("cls");
523
                        \verb|cout|<<| cout|<<| cout|</|><| cout|</| cout|</
                          you for shopping."<<endl;
524
                                       return(0);
525
526
527
528
```