

```

1  #include<stdio.h>
2  #include<string>
3  #include<iostream>
4  #include<fstream>
5  #include<limits>
6
7
8  using namespace std;
9
10 void quiz();
11 void course();
12 void video();
13
14 void save_user(const std::string &username, const std::string &password);
15
16 void login();
17 void register_user();
18 void main_menu();
19
20
21 int guess;
22 int total=0;
23 //class question;
24 class question{
25 private:
26     string question_form;
27     string answer_1;
28     string answer_2;
29     string answer_3;
30     string answer_4;
31
32     int correct;
33     int score;
34
35 public:
36     void setvalues(string,string,string,string,string,int,int);
37     void askQuestion();
38
39 };
40 int main()
41 {
42
43     cout<<" ***** " <<endl;
44     cout<<" * " <<endl;
45     cout<<" * *WELCOM TO E-LEARNING* " <<endl;
46     cout<<" * " <<endl;
47     cout<<" ***** " <<endl;
48     cout<<endl;
49
50     int option;
51     cout<<"Enter optio to select:"<<endl<<"1.register/login"<<endl<<"2.quiz"<<endl<<"3.courses"<<endl<<
"4.exit"<<endl;
52     cin>>option;
53     switch(option)
54     {
55         case 1:
56             cout<<"If already registered-->login"<<endl;
57             main_menu();
58             break;
59
60         case 2:
61             cout<<"Attempt quiz."<<endl;
62             quiz();
63             break;
64         case 3:
65             cout<<"browse course."<<endl;

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66         course();
67         break;
68     case 4:
69         exit;
70
71 }
72 }
73
74 void quiz(){
75
76     question q1;
77     question q2;
78
79     q1.setvalues("Sanjeev Chopra belongs to which game?",
80                 "hockey",
81                 "badminton",
82                 "shot-put",
83                 "javelline throw",
84                 4,
85                 10);
86     q2.setvalues("Olympic 2020 held in which country?",
87                 "India",
88                 "Japan",
89                 "Aouth Africa",
90                 "None of the above",
91                 2,
92                 10);
93     q1.askQuestion();
94     q2.askQuestion();
95
96     cout<<"Your total score is"<< total << endl;
97
98 }
99
100 void question::setvalues(string q,string a1,string a2,string a3,string a4,int ca,int pa){
101     question_form = q;
102     answer_1 = a1;
103     answer_2 = a2;
104     answer_3 = a3;
105     answer_4 = a4;
106     correct = ca;
107     score = pa;
108
109 }
110 void question::askQuestion(){
111     cout<<endl;
112     cout<<question_form <<endl;
113     cout<<"1. " <<answer_1 <<endl;
114     cout<<"2. " <<answer_2 <<endl;
115     cout<<"3. " <<answer_3 <<endl;
116     cout<<"4. " <<answer_4 <<endl;
117     cout<<endl;
118     cout<<"what is your answer ?"<<endl;
119     cin>>guess;
120
121     if(guess==correct){
122         cout<<endl;
123         cout<<"Great! Correct. " <<endl;
124         total=total+score;
125         cout<<"score: " <<score<<endl;
126         cout<<endl;
127
128     }
129     else{
130         cout<<endl;
131         cout<<"oh NO! Wrong. " <<endl;

```

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132     cout<<"score:0"<<score<<endl;
133     cout<<endl;
134 }
135 }
136 }
137 }
138 void course(){
139     int co;
140     cout<<"Enter course to select:"<<endl<<"1.JAVA"<<endl<<"2.PYTHON"<<endl<<"3.C++"<<endl;
141     cin>>co;
142     switch(co)
143     {
144         case 1:
145             cout<<"JAVA"<<endl;
146             video();
147             break;
148
149         case 2:
150             cout<<"PYTHON."<<endl;
151             video();
152             break;
153         case 3:
154             cout<<"C++"<<endl;
155             video();
156             break;
157         case 4:
158             exit;
159     }
160 }
161 }
162 }
163 void video(){
164     cout<<"COMING SOON!!!!..."<<endl;
165 }
166 }
167
168 template <typename T>
169 T get_input(const string &strQuery)
170 {
171     cout << strQuery << "\n> ";
172     T out = T();
173
174     while (!(cin >> out)) {
175         cin.clear();
176         cin.ignore(numeric_limits<streamsize>::max(), '\n');
177         cout << "Error!" << "\n";
178         cout << strQuery << "\n> ";
179     }
180
181     return out;
182 }
183
184 string get_password()
185 {
186     string password1 = get_input<std::string>("Please enter your password.");
187     string password2 = get_input<std::string>("Please re-enter your password.");
188
189     while (password1 != password2) {
190         cout << "Error! Passwords do not match." << "\n";
191         password1 = get_input<std::string>("Please enter your password.");
192         password2 = get_input<std::string>("Please re-enter your password.");
193     }
194
195     return password1;
196 }
197

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198 string get_username()
199 {
200     string username = get_input <std::string>("Please enter a username.");
201     cout << "Username: \" << username << "\"\n";
202
203     while (get_input <int>("Confirm? [0|1]") != 1) {
204         username = get_input <std::string>("Please enter a username.");
205         cout << "Username: \" << username << "\"\n";
206     }
207
208     return username;
209 }
210
211 void login()
212 {
213     cout << "You are being logged in!" << "\n";
214 }
215
216 void main_menu()
217 {
218     int choice = get_input <int>(
219         "Hello, Would you like to log in or register?" << "\n"
220         "[1] Login" << "\n"
221         "[2] Register" << "\n"
222         "[3] Exit");
223
224     switch (choice)
225     {
226     case 1:
227         login();
228         break;
229     case 2:
230         register_user();
231         break;
232     }
233 }
234
235 void register_user()
236 {
237     string username = get_username();
238     string password = get_password();
239     save_user(username, password);
240 }
241
242 void save_user(const string &username, const string &password)
243 {
244     string filename = username + ".txt";
245     ofstream file(filename);
246     file << password << "\n";
247 }

```