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1  /*F17/1760/2019 BENJAMIN OKUMU
2  PROGRAM DETERMINES VIRAL DISEASE AS EITHER CORONAVIRUS, FLU OR COLD*/
3  #include<iostream>
4  using namespace std;
5  int main()
6  {
7
8      int coronafreq=0;
9      int coldfreq=0;
10     int flufreq=0;
11     //display the symptoms
12     cout<<"VIRAL DISEASE DETERMINER!!"<<endl;
13     cout<<"WHICH OF THESE SYMPTOMS DO YOU EXHIBIT?"<<endl;
14     cout<<"[1]FEVER"<<endl;
15     cout<<"[2]FATIGUE"<<endl;
16     cout<<"[3]COUGH"<<endl;
17     cout<<"[4]SNEEZING"<<endl;
18     cout<<"[5]ACHES AND PAINS"<<endl;
19     cout<<"[6]RUNNY OR STUFFY NOSE"<<endl;
20     cout<<"[7]SORE THROAT"<<endl;
21     cout<<"[8]DIARRHEA"<<endl;
22     cout<<"[9]HEADACHES"<<endl;
23     cout<<"[10]SHORTNESS OF BREATH"<<endl;
24
25     int option;
26     int i;
27     do{
28         cout<<"ENTER SYMPTOM NO:";
29         cin>>option;
30         //using if loops for each symptom, analysis of the symptoms occurs below
31         if (option==1)
32         {
33             cout<<"ENTER SEVERITY;"<<endl;
34             cout<<"[1]Common"<<endl;
35             cout<<"[2]Rare"<<endl;
36             int severity;
37             cin>>severity;
38             if(severity==1)
39             {
40                 coronafreq=coronafreq+1;
41                 flufreq=flufreq+1;
42                 cout<<"Coronavirus or Flu"<<endl;
43             }
44             else if(severity==2)
45             {
46                 coldfreq=coldfreq+1;
47                 cout<<"Cold"<<endl;
48             }
49         }
50         else if(option==2)
51         {
52             cout<<"ENTER SEVERITY;"<<endl;
53             cout<<"[1]Sometimes"<<endl;
54             cout<<"[2]Common"<<endl;
55             int severity;
56             cin>>severity;
57             if(severity==1)
58             {
59                 coronafreq=coronafreq+1;
60                 coldfreq=coldfreq+1;
61                 cout<<"Coronavirus or cold"<<endl;
62             }
63             else if(severity==2)
64             {
65                 flufreq=flufreq+1;
66                 cout<<"Flu"<<endl;

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67     }
68 }
69 else if(option==3)
70 {
71     cout<<"ENTER SEVERITY;"<<endl;
72     cout<<"[1]Common(usually dry)"<<endl;
73     cout<<"[2]Dry"<<endl;
74     int severity;
75     cin>>severity;
76     if(severity==1)
77     {
78         coronafreq=coronafreq+1;
79         flufreq=flufreq+1;
80         cout<<"Coronavirus or Flu"<<endl;
81     }
82     else if(severity==2)
83     {
84         coldfreq=coldfreq+1;
85         cout<<"Cold"<<endl;
86     }
87 }
88 else if(option==4)
89 {
90     cout<<"ENTER SEVERITY;"<<endl;
91     cout<<"[1]None"<<endl;
92     cout<<"[2]Common"<<endl;
93     int severity;
94     cin>>severity;
95     if(severity==1)
96     {
97         coronafreq=coronafreq+1;
98         flufreq=flufreq+1;
99         cout<<"Coronavirus or Flu"<<endl;
100    }
101    else if(severity==2)
102    {
103        coldfreq=coldfreq+1;
104        cout<<"Cold"<<endl;
105    }
106 }
107 else if(option==5)
108 {
109     cout<<"ENTER SEVERITY;"<<endl;
110     cout<<"[1]Sometimes"<<endl;
111     cout<<"[2]Common"<<endl;
112     int severity;
113     cin>>severity;
114     if(severity==1)
115     {
116         coronafreq=coronafreq+1;
117         cout<<"Coronavirus"<<endl;
118     }
119     else if(severity==2)
120     {
121         coldfreq=coldfreq+1;
122         flufreq=flufreq+1;
123         cout<<"Cold of flu"<<endl;
124     }
125 }
126 else if(option==6)
127 {
128     cout<<"ENTER SEVERITY;"<<endl;
129     cout<<"[1]Rare"<<endl;
130     cout<<"[2]Common"<<endl;
131     cout<<"[3]Sometimes"<<endl;
132     int severity;

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133     cin>>severity;
134     if(severity==1)
135     {
136         coronafreq=coronafreq+1;
137         cout<<"Corona virus"<<endl;
138     }
139     else if(severity==2)
140     {
141         coldfreq=coldfreq+1;
142         cout<<"Cold"<<endl;
143     }
144     else if(severity==3)
145     {
146         flufreq=flufreq+1;
147         cout<<"Flu"<<endl;
148     }
149 }
150 else if (option==7)
151 {
152     cout<<"ENTER SEVERITY;"<<endl;
153     cout<<"[1]Sometimes"<<endl;
154     cout<<"[2]Common"<<endl;
155     int severity;
156     cin>>severity;
157     if(severity==1)
158     {
159         coronafreq=coronafreq+1;
160         flufreq=flufreq+1;
161         cout<<"Coronavirus or Flu"<<endl;
162     }
163     else if(severity==2)
164     {
165         coldfreq=coldfreq+1;
166         cout<<"Cold"<<endl;
167     }
168 }
169 else if(option==8)
170 {
171     cout<<"ENTER SEVERITY;"<<endl;
172     cout<<"[1]Rare"<<endl;
173     cout<<"[2]No"<<endl;
174     cout<<"[3]Sometimes(children)"<<endl;
175     int severity;
176     cin>>severity;
177     if(severity==1)
178     {
179         coronafreq=coronafreq+1;
180         cout<<"Coronavirus"<<endl;
181     }
182     else if(severity==2)
183     {
184         coldfreq=coldfreq+1;
185         cout<<"Cold"<<endl;
186     }
187     else if(severity==3)
188     {
189         flufreq=flufreq+1;
190         cout<<"Flu"<<endl;
191     }
192 }
193 else if(option==9)
194 {
195     cout<<"ENTER SEVERITY;"<<endl;
196     cout<<"[1]Sometimes"<<endl;
197     cout<<"[2]Rare"<<endl;
198     cout<<"[3]Common"<<endl;

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199     int severity;
200     cin>>severity;
201     if(severity==1)
202     {
203         coronafreq=coronafreq+1;
204         cout<<"Coronavirus"<<endl;
205     }
206     else if(severity==2)
207     {
208         coldfreq=coldfreq+1;
209         cout<<"Cold"<<endl;
210     }
211     else if(severity==3)
212     {
213         flufreq=flufreq+1;
214         cout<<"Flu"<<endl;
215     }
216 }
217 else
218 {
219     cout<<"ENTER SEVERITY;"<<endl;
220     cout<<"[1]Sometimes"<<endl;
221     cout<<"[2]No"<<endl;
222     int severity;
223     cin>>severity;
224     if(severity==1)
225     {
226         coronafreq=coronafreq+1;
227         cout<<"Coronavirus"<<endl;
228     }
229     else if(severity==2)
230     {
231         coldfreq=coldfreq+1;
232         flufreq=flufreq+1;
233         cout<<"Cold or flu"<<endl;
234     }
235 }
236
237 }while(option<=9);
238 //Diagnosis and ailment declaration
239 if(coronafreq>coldfreq)
240 {
241     if(coronafreq>flufreq)
242     {
243         cout<<"CORONA VIRUS:POSITIVE"<<endl;
244     }
245 }
246 else if(coronafreq<coldfreq)
247 {
248     cout<<"COLD:POSITIVE"<<endl;
249 }
250 else
251 {
252     cout<<"FLU:POSITIVE"<<endl;
253 }
254 cout<<"NOTE THAT A PATIENT MAY SUFFER EITHER FLU OR COLD AS CORONA VIRUS SYMPTOMS!!"<<endl;
255 }
256

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