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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  //declaring variables for count
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
27     do{
28 //user enters symptom number as per selector
29     cout<<"ENTER SYMPTOM NO:";
30     cin>>option;
31     //using if loops for each symptom, analysis of the symptoms occurs below
32     //fever
33     if (option==1)
34     {
35         cout<<"ENTER SEVERITY;"<<endl;
36         cout<<"[1]Common"<<endl;
37         cout<<"[2]Rare"<<endl;
38         int severity;
39         cin>>severity;
40         if(severity==1)
41         {
42             coronafreq=coronafreq+1;
43             flufreq=flufreq+1;
44             cout<<"Coronavirus or Flu"<<endl;
45         }
46         else if(severity==2)
47         {
48             coldfreq=coldfreq+1;
49             cout<<"Cold"<<endl;
50         }
51     }
52     else if(option==2)//fatigue
53     {
54         cout<<"ENTER SEVERITY;"<<endl;
55         cout<<"[1]Sometimes"<<endl;
56         cout<<"[2]Common"<<endl;
57         int severity;
58         cin>>severity;
59         if(severity==1)
60         {
61             coronafreq=coronafreq+1;
62             coldfreq=coldfreq+1;
63             cout<<"Coronavirus or cold"<<endl;
64         }
65         else if(severity==2)
66         {

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

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

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199     cout<<"[2]Rare"<<endl;
200     cout<<"[3]Common"<<endl;
201     int severity;
202     cin>>severity;
203     if(severity==1)
204     {
205         coronafreq=coronafreq+1;
206         cout<<"Coronavirus"<<endl;
207     }
208     else if(severity==2)
209     {
210         coldfreq=coldfreq+1;
211         cout<<"Cold"<<endl;
212     }
213     else if(severity==3)
214     {
215         flufreq=flufreq+1;
216         cout<<"Flu"<<endl;
217     }
218 }
219 else//shortness of breath
220 {
221     cout<<"ENTER SEVERITY;"<<endl;
222     cout<<"[1]Sometimes"<<endl;
223     cout<<"[2]No"<<endl;
224     int severity;
225     cin>>severity;
226     if(severity==1)
227     {
228         coronafreq=coronafreq+1;
229         cout<<"Coronavirus"<<endl;
230     }
231     else if(severity==2)
232     {
233         coldfreq=coldfreq+1;
234         flufreq=flufreq+1;
235         cout<<"Cold or flu"<<endl;
236     }
237 }
238
239 }while(option<=9);
240 //Diagnosis and ailment declaration
241 if(coronafreq>coldfreq)
242 {
243     if(coronafreq>flufreq)
244     {
245         cout<<"CORONA VIRUS:POSITIVE"<<endl;
246     }
247 }
248 else if(coronafreq<coldfreq)
249 {
250     cout<<"COLD:POSITIVE"<<endl;
251 }
252 else
253 {
254     cout<<"FLU:POSITIVE"<<endl;
255 }
256 cout<<"NOTE THAT A PATIENT MAY SUFFER EITHER FLU OR COLD AS CORONA VIRUS SYMPTOMS!!"<<endl;
257 }
258

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