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1: #include <iostream>
2: #include <map>
3: #include <string>
4: #include <cctype>
5:
6: //0409021555084
7: //LUYANDA SITHOLE
8:
9: using namespace std;
10:
11: map<char, string> morseMap = {
12:     {'A', ".-"}, {'B', "-..."}, {'C', "-.-."}, {'D', "-.."},
13:     {'E', "."}, {'F', "..-."}, {'G', "--."}, {'H', "...."},
14:     {'I', ".."}, {'J', ".---"}, {'K', "-.-"}, {'L', "-.-."},
15:     {'M', "--"}, {'N', "-."}, {'O', "---"}, {'P', "-.-."},
16:     {'Q', "--.-"}, {'R', ".-."}, {'S', "..."}, {'T', "-."},
17:     {'U', "..-"}, {'V', "...-"}, {'W', "-.-"}, {'X', "-.-.-"},
18:     {'Y', "-.-.-"}, {'Z', "--.."}, {'1', ".----"}, {'2', "-.---"},
19:     {'3', "-.--"}, {'4', "--.-"}, {'5', "-----"}, {'6', "-...."},
20:     {'7', "-..."}, {'8', "--..."}, {'9', "-...."}, {'0', "-----"},
21:     {' ', " "}};
22: };
23:
24: char dot = char(250);
25: char dash = char(196);
26:
27: int main() {
28:     string message, fullMorse = "";
29:
30:     cout << "Enter your message: ";
31:     getline(cin, message);
32:
33:     for (char c : message) {
34:         c = toupper(c);
35:
36:         if (morseMap.count(c)) {
37:             string morseCode = morseMap[c];
38:
39:             cout << c << ": ";
40:             for (char m : morseCode) {
41:                 if (m == '.') cout << dot;
42:                 else if (m == '-') cout << dash;
43:                 else cout << ' ';
44:             }
45:             cout << endl;
46:
47:             for (char m : morseCode) {
48:                 if (m == '.') fullMorse += dot;
49:                 else if (m == '-') fullMorse += dash;
50:             }
51:             fullMorse += " ";
52:         }
53:     }
54:     cout << "\nFull Morse code with spaces:\n" << fullMorse << endl;
55:

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56:     return 0;  
57: }
```