



Sample: C++ - Morse Code Translation

```
#include <cstdlib>

#include <iostream>

#include <string>

using namespace std;

string translateMorseCode(string sentence);

//Main function

int main(int argc, char *argv[])

{

    string sentence;//variable for sentence

    cout<<"Enter word or sentence: ";//prompt user to enter sentence

    getline(cin,sentence);//read sentence

    cout<<"Morse Code is:\n";//show Morse Code

    //convert input message into morse

    cout<<translateMorseCode(sentence);

    cout<<"\n\n";//new line

    system("PAUSE");//delay

    return 0;

}

//function convert input message into morse

//return Morse Code as String

string translateMorseCode(string sentence){

    string MorseCode="";

    for(int i=0;i<sentence.length();i++){

        // use switch statements for changing the input to Morse code.

        switch (sentence[i]){

            case 'a':

            case 'A':

                MorseCode.append("-. ");

                break;

            case 'b':

            case 'B':

                MorseCode.append("-... ");

                break;

        }

    }

}
```



```
case 'c':
case 'C':
    MorseCode.append("-.- ");
    break;
case 'd':
case 'D':
    MorseCode.append("-.. ");
    break;
case 'e':
case 'E':
    MorseCode.append(". ");
    break;
case 'f':
case 'F':
    MorseCode.append("-.-. ");
    break;
case 'g':
case 'G':
    MorseCode.append("--. ");
    break;
case 'h':
case 'H':
    MorseCode.append(".... ");
    break;
case 'i':
case 'I':
    MorseCode.append(".. ");
    break;
case 'j':
case 'J':
    MorseCode.append("...- ");
    break;
case 'k':
case 'K':
```



```
        MorseCode.append("-.- ");
        break;
    case 'l':
    case 'L':
        MorseCode.append("-.. ");
        break;
    case 'm':
    case 'M':
        MorseCode.append("-- ");
        break;
    case 'n':
        case 'N':
            MorseCode.append("-. ");
            break;
    case 'o':
    case 'O':
        MorseCode.append("--- ");
        break;
    case 'p':
    case 'P':
        MorseCode.append("---. ");
        break;
    case 'q':
    case 'Q':
        MorseCode.append("--.- ");
        break;
    case 'r':
    case 'R':
        MorseCode.append("-.-. ");
        break;
    case 's':
    case 'S':
        MorseCode.append("... ");
        break;
```



```
case 't':
case 'T':
    MorseCode.append("- ");
    break;
case 'u':
case 'U':
    MorseCode.append("..- ");
    break;
case 'v':
case 'V':
    MorseCode.append("...- ");
    break;
case 'w':
case 'W':
    MorseCode.append("-- ");
    break;
case 'x':
case 'X':
    MorseCode.append(".- ");
    break;
case 'y':
case 'Y':
    MorseCode.append("-.- ");
    break;
case 'z':
case 'Z':
    MorseCode.append("--.. ");
    break;
case ' ':
    MorseCode.append(" ");
    break;
case '1':
    MorseCode.append(".... ");
    break;
```



```
    case '2':
        MorseCode.append("..--- ");
        break;
    case '3':
        MorseCode.append("...-- ");
        break;
    case '4':
        MorseCode.append("....- ");
        break;
    case '5':
        MorseCode.append("..... ");
        break;
    case '6':
        MorseCode.append("-.... ");
        break;
    case '7':
        MorseCode.append("--... ");
        break;
    case '8':
        MorseCode.append("---.. ");
        break;
    case '9':
        MorseCode.append("----. ");
        break;
    case '0':
        MorseCode.append("----- ");
        break;
    }
}
return MorseCode;// return Morse Code
}
```