

Morse Code Converter

Morse code is a code where each letter of the English alphabet, each digit, and various punctuation characters are represented by a series of dots and dashes. The Table below shows part of the code. Originally, telegraph operators used Morse code to transmit messages using electrical pulses that they then translated into text messages. Later, radio communicators adapted the code and began to use it as an auditory language that comprises signals as easily translatable dots and dashes.

Write a program that asks the user to enter a string, and then converts that string to Morse code. Your program should also work when the reverse is entered. For example, if the code ... --- ... is entered, it should display SOS message.

| Character | Code | Character | Code | Character | Code | Character | Code |
|-----------|---------------|-----------|-------------|-----------|-------------|-----------|---------|
| space | <i>space</i> | 6 | - | G | -- . | Q | -- . - |
| comma | --- . . . | 7 | --- | H | | R | . - . |
| period | . - . . . - | 8 | --- | I | . . | S | . . . |
| ? | . . - | 9 | --- | J | . --- | T | - |
| 0 | ----- | A | . - | K | - . - | U | . . - |
| 1 | . - | B | - | L | . - . . | V | . . . - |
| 2 | . . - | C | - . - . | M | -- | W | . -- |
| 3 | . . . - . . | D | - . . | N | - . | X | - . . - |
| 4 | - | E | . | O | --- | Y | - . -- |
| 5 | | F | . . - . | P | . -- - . | Z | -- . . |

Write a Report Summary

Using Microsoft Word, answer the following eight questions.

1. Did you complete your assignment and did it run without errors?
2. Did your program produce the correct result?
3. Did you test your program thoroughly?
4. How much time did you spend completing your assignment?
5. Did you write the program yourself? Did you get any help from anyone?
6. How did you resolve the issues when you encountered obstacles to completing your program? Did you use Google to get help? Describe how Google was able or not able to assist you?

7. What did you learn from doing this assignment?
8. Any other information you would like to share with your instructor?

What to submit

1. Submit all your program files (.py file)
2. Submit your program output, showing multiple test-run
3. Submit your learning report summary