"C:\Program Files\Java\jdk-14.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2020.2.3\lib\idea_rt.jar=64708:C:\Program Files\JetBrains\IntelliJ IDEA 2020.2.3\bin" -Dfile.encoding=UTF-8 -classpath C:\Roux\CS5010\projects\HuffmanCodingTree\out\production\HuffmanCodingTree Driver

This is a cipher program that will encode or decode text.

You will provide a symbol -> code dictionary. This can be done either by providing it in a file or entering it here.

Please format the dictionary as 'symbol=code~symbol=code'.

Example formatting: o=0010~y=0011~s=01000.

Will you enter the dictionary at the console (Y/N)?

Y

Please enter the dictionary.

=000~o=0010~y=0011~s=01000~e=01001~k=0101~n=01100~m=01101~u=0111~v=1000~z=1001~b=101000~j=101001~g=10101~q=10110~.=10111~f=1100~l=11010~p=11011~c=111000~a=1110010~i=1110011~t=11101~r=11110~d=111110~,=111111000~w=111111001~h=11111101~x=1111111

This is the dictionary: { =000, a=1110010, b=101000, c=111000, d=111110, e=01001, f=1100, g=10101, h=11111101, i=1110011, j=101001, k=0101, l=11010, ,=111111000, m=01101, n=01100, .=10111, o=0010, p=11011, q=10110, r=11110, s=01000, t=11101, u=0111, v=1000, w=111111001, x=1111111, y=0011, z=1001}

Do you want to encode or decode based on the input dictionary (encode / decode)?.

encode

Please enter the string to encode. You may only use the symbols provided for the message as displayed above.

my name is inigo montoya. you kill my father. prepare to die.

Encoded message:
0110100110000110011100100110101001000111001101000000111001101100111001101010010010000011010010011001110100100011110010000001100100110000101110011110101101000001101001100011100111001011101111111010100111110000110111111001001110111110010111100100100011101001000011110111001101001101111

Process finished with exit code 0