# -\*- coding: utf-8 -\*-

"""

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# Dictionary representing the morse code chart

MORSE\_CODE\_DICT = { 'A':'.-', 'B':'-...',

'C':'-.-.', 'D':'-..', 'E':'.',

'F':'..-.', 'G':'--.', 'H':'....',

'I':'..', 'J':'.---', 'K':'-.-',

'L':'.-..', 'M':'--', 'N':'-.',

'O':'---', 'P':'.--.', 'Q':'--.-',

'R':'.-.', 'S':'...', 'T':'-',

'U':'..-', 'V':'...-', 'W':'.--',

'X':'-..-', 'Y':'-.--', 'Z':'--..',

'1':'.----', '2':'..---', '3':'...--',

'4':'....-', '5':'.....', '6':'-....',

'7':'--...', '8':'---..', '9':'----.',

'0':'-----', ', ':'--..--', '.':'.-.-.-',

'?':'..--..', '/':'-..-.', '-':'-....-',

'(':'-.--.', ')':'-.--.-'

}

def encryption(message):

my\_cipher = ''

for myletter in message:

if myletter != ' ':

my\_cipher += MORSE\_CODE\_DICT[myletter] + ' '

else:

my\_cipher += ' '

return my\_cipher

# This function is used to decrypt

# Morse code to English

def decryption(message):

message += ' '

decipher = ''

mycitext = ''

for myletter in message:

# checks for space

if (myletter != ' '):

i = 0

mycitext += myletter

else:

i += 1

if i == 2 :

decipher += ' '

else:

decipher += list(MORSE\_CODE\_DICT.keys())[list(MORSE\_CODE\_DICT

.values()).index(mycitext)]

mycitext = ''

return decipher

def main():

my\_message = "PYTHON-PROGRAM"

output = encryption(my\_message.upper())

print (output)

my\_message = ".--. -.-- - .... --- -. -....- .--. .-. --- --. .-. .- -- "

output = decryption(my\_message)

print (output)

# Executes the main function

if \_\_name\_\_ == '\_\_main\_\_':

main()