## MORSE CODE TRANSLATOR

Morse code is a method of transmitting text information as a series of on-off tones, lights, or clicks that can be directly understood by a skilled listener or observer without special equipment. It is named for Samuel F. B. Morse, an inventor of the telegraph.

Every character in the English language is substituted by a series of 'dots' and 'dashes' or sometimes just singular 'dot' or 'dash' and vice versa.

## CODE:

```
#python program to implement Morse Code Translator
# Dictionary representing the morse code chart
MorseCode_Chart = { 'A':'.-', 'B':'-...',
                    '0':'---', 'P':'.--.', 'Q':'--.-',
# encrpting English to Morse Code
def encrpt(message):
    encrptedMessage = ''
    for letter in message:
        if letter != ' ':
            # Looks up the dictionary and adds the
            # corresponding morse code
            # along with a space to separate
            # morse codes for different characters
            encrptedMessage += MorseCode_Chart[letter] + ' '
        else:
            encrptedMessage += ' '
    return encrptedMessage
```

```
# Decripting Morse Code to English
def decrpt(message):
   #extra space added at last to detect the last morse code
   message += ' '
   decrptedMessage = ''
   morseCodeOfsingleLetter = ''
   for letter in message:
       if letter != ' ':
           #counter to keep track of spaces
           i = 0
           morseCodeOfsingleLetter += letter
       else:
           #if i == 1 indicates new character
           i += 1
           # if i == 2 indicates new word
           if i == 2:
               #adding space to saperate english words
              decrptedMessage += ' '
           else:
               #reverse encrption
              decrptedMessage +=
list(MorseCode_Chart.keys())[list(MorseCode_Chart.values()).index(morseCodeOfs
ingleLetter)]
              morseCodeOfsingleLetter = ''
   return decrptedMessage
def main():
   message = "SHASHI PREETHAM KANDHAGATLA"
   result = encrpt(message)
   print(result)
   result = decrpt(message)
   print(result)
if __name__ == '__main__':
   main()
```

## **OUTPUT:**

