

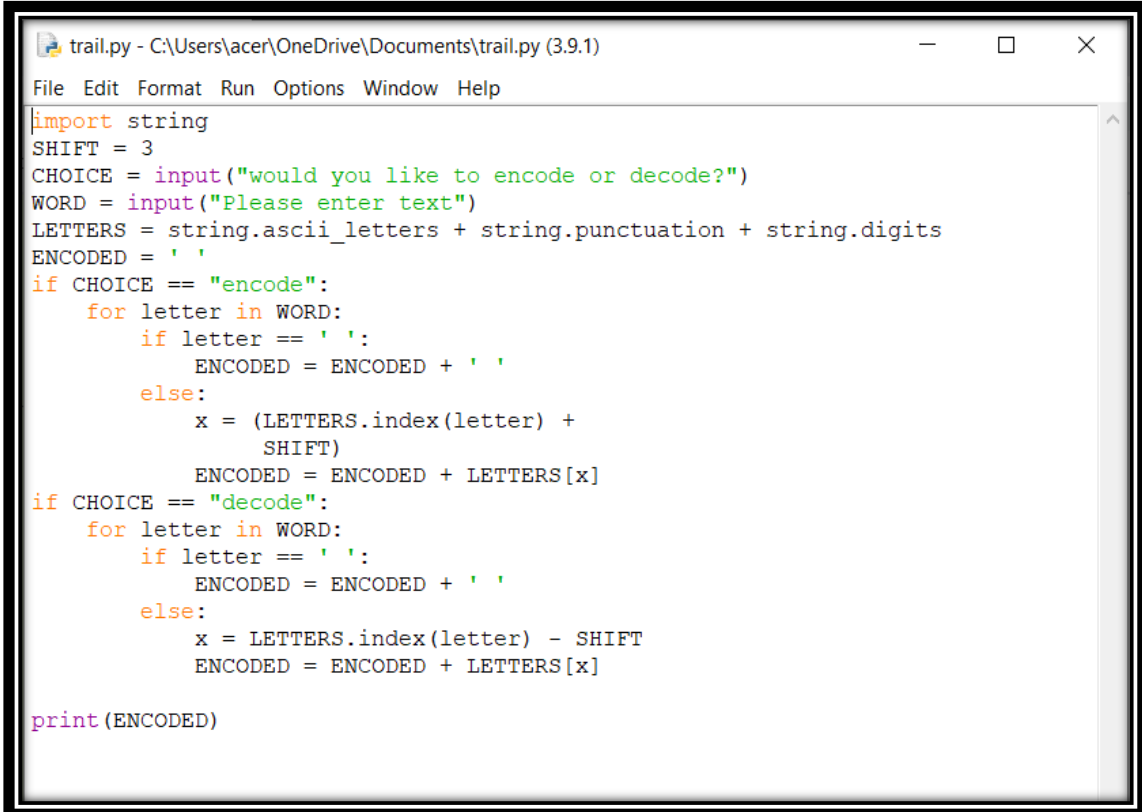
## Practical-7

### Python code using PEP8

PEP 8, sometimes spelled PEP8 or PEP-8, is a document that provides guidelines and best practices on how to write Python code. It was written in 2001 by Guido van Rossum, Barry Warsaw, and Nick Coghlan. The primary focus of PEP 8 is to improve the readability and consistency of Python code.

PEP stands for Python Enhancement Proposal, and there are several of them. A PEP is a document that describes new features proposed for Python and documents aspects of Python, like design and style, for the community.

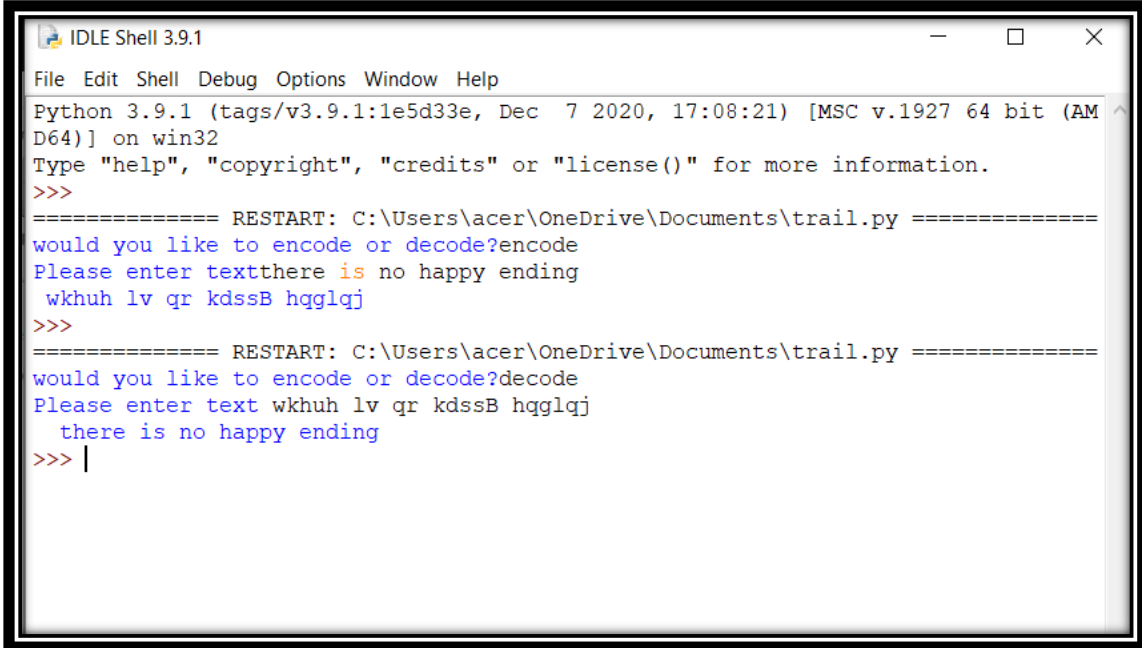
Code:-

A screenshot of a Python IDE window titled 'trail.py - C:\Users\acer\OneDrive\Documents\trail.py (3.9.1)'. The window has a menu bar with 'File', 'Edit', 'Format', 'Run', 'Options', 'Window', and 'Help'. The code editor contains a Python script for a Caesar cipher. The code is as follows:

```
import string
SHIFT = 3
CHOICE = input("would you like to encode or decode?")
WORD = input("Please enter text")
LETTERS = string.ascii_letters + string.punctuation + string.digits
ENCODED = ''
if CHOICE == "encode":
    for letter in WORD:
        if letter == ' ':
            ENCODED = ENCODED + ' '
        else:
            x = (LETTERS.index(letter) +
                SHIFT)
            ENCODED = ENCODED + LETTERS[x]
if CHOICE == "decode":
    for letter in WORD:
        if letter == ' ':
            ENCODED = ENCODED + ' '
        else:
            x = LETTERS.index(letter) - SHIFT
            ENCODED = ENCODED + LETTERS[x]

print(ENCODED)
```

Output:-



```
IDLE Shell 3.9.1
File Edit Shell Debug Options Window Help
Python 3.9.1 (tags/v3.9.1:1e5d33e, Dec 7 2020, 17:08:21) [MSC v.1927 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\acer\OneDrive\Documents\trail.py =====
would you like to encode or decode?encode
Please enter textthere is no happy ending
wkhuh lv qr kdssB hqglqj
>>>
===== RESTART: C:\Users\acer\OneDrive\Documents\trail.py =====
would you like to encode or decode?decode
Please enter text wkhuh lv qr kdssB hqglqj
there is no happy ending
>>> |
```