

4. ILLUSTRATION OF TEXT FILE PROGRAMMING - I

Develop a python program to do the following tasks:

- Create a text file with multiple lines of text in it.
- Read the text File and display the number of vowels, consonants, lowercase, uppercase, spaces and digits in the file.

Source Code

```
# Create the file
with open("lines.txt", "w") as f:
    f.write("Once upon a time\n")
    f.write("a man lived in the woods\n")
    f.write("He was a very old man\n")
    f.write("He was a 90 years old\n")
    f.write("He lived a happy life")

with open("lines.txt") as f:
    data = f.read()
    print(data)
    print()

# variables for taking count
vowels = 0
consonants = 0
lcase = 0
ucase = 0
spaces = 0
digits = 0

for letter in data:
    if letter.isalpha():
        if letter.lower() in ["a", "e", "i", "o", "u"]:
            vowels+=1
        else:
            consonants+=1

    if letter.isupper():
        ucase+=1
    if letter.islower():
        lcase+=1
```

```
elif letter.isdigit():
    digits+=1

elif letter.isspace():
    spaces+=1

print("There are", vowels, "vowels")
print("There are", consonants, "consonants")
print("There are", lcase, "lowercase letters")
print("There are", ucase, "uppercase letters")
print("There are", spaces, "spaces")
print("There are", digits, "digits")
```

OUTPUT

```
Once upon a time
a man lived in the woods
He was a very old man
He was a 90 years old
He lived a happy life
```

```
There are 34 vowels
There are 45 consonants
There are 75 lowercase letters
There are 4 uppercase letters
There are 26 spaces
There are 2 digits
```