Name: Srushti Santosh patil
Student ID: AF0439219
Batch code: ANP-C9180

Day 8: String

1. Count the occurrences of each word in a given sentence:

```
# Input sentence
stringx = "To change the overall look of your document. To change the
look available in the gallery"

# Dictionary to store word counts
word_count = {}

# Convert to lowercase, split into words, and remove punctuation
words = stringx.lower().split()

for word in words:
    word = word.strip(",.!?;:")  # Remove any trailing punctuation
    if word in word_count:
        word_count[word] += 1  # Increment count if word already exists
    else:
        word_count[word] = 1  # Add a word to the dictionary with count
1

# Display the word counts
for word, count in word_count.items():
    print(f"{word}: {count}")
```

2. Remove newline characters from a string:

```
# Input string with newline characters
strx = "\nBest \nDeeptech \nPython \nTraining\n"

# Remove all newline characters using `replace`
str_without_newline = strx.replace("\n", " ").strip()

# Display the result
print("String without newlines:", str_without_newline)
```

3. Reverse words in a string:

```
# Input string
string = "Deeptech Python Training"

# Split the string into words, reverse them, and join them
back
reversed_words = " ".join(string.split()[::-1])

# Display the reversed string
print("Reversed Words:", reversed_words)
```

4. Count and display the vowels in a given text:

```
# Input string
string = "Welcome to python Training"

# Initialize a counter for vowels
vowel_count = 0

# Define the vowels
vowels = "aeiou"

# Convert the string to lowercase and iterate through it
for char in string.lower():
    if char in vowels:
        vowel_count += 1

# Display the result
print(f"Number of vowels: {vowel_count}")
```

Output: