………………………………………………………….Assignment……………………………………………………………

1. Write a Python program to count the occurrences of each word in a given sentence

string = “To change the overall look of your document. To change the look available in the gallery”

def count\_word\_occurrences(sentence):

words = sentence.split() # Split the sentence into words

word\_counts = {} # Initialize an empty dictionary to store

word counts

for word in words: # Count occurrences of each word

word = word.strip('.,!?') # Remove punctuation marks

word = word.lower() # Convert word to lowercase to make the -

insensitive count case

word\_counts[word] = word\_counts.get(word, 0) + 1 # Update word count in the

dictionary

return word\_counts

# Given sentence

string = "To change the overall look of your document. To change the look available in the gallery"

# Count occurrences of each word

word\_occurrences = count\_word\_occurrences(string)

for word, count in word\_occurrences.items(): # Print the result

print(f"'{word}' occurs {count} time(s)")

output: 'to' occurs 2 time(s)

'change' occurs 2 time(s)

'the' occurs 3 time(s)

'overall' occurs 1 time(s)

'look' occurs 2 time(s)

'of' occurs 1 time(s)

'your' occurs 1 time(s)

'document' occurs 1 time(s)

'available' occurs 1 time(s)

'in' occurs 1 time(s)

'gallery' occurs 1 time(s)

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2. Write a Python program to remove a newline in Python

String = "\nBest \nDeeptech \nPython \nTraining\n"

string = "\nBest \nDeeptech \nPython \nTraining\n"

string\_without\_newlines = string.replace("\n", "") # Remove newline characters

print("String without newlines:")

print(string\_without\_newlines)

output: String without newlines:

Best Deeptech Python Training

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3. Write a Python program to reverse words in a string

String = “Deeptech Python Training”

string = "Deeptech Python Training"

words = string.split() # Split the string into words

reversed\_words = list(reversed(words)) # Reverse the order of words

reversed\_string = " ".join(reversed\_words) # Join the reversed words back into a string

print("Reversed string:")

print(reversed\_string)

output: Reversed string:

Training Python Deeptech

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4. Write a Python program to count and display the vowels of a given text String=”Welcome to python Training

text\_string = "Welcome to Python Training"

def count\_and\_display\_vowels(text): # Function to count and display vowels

vowels = "aeiouAEIOU"

vowel\_count = 0

vowel\_list = []

for char in text:

if char in vowels:

vowel\_count += 1

vowel\_list.append(char)

print("Vowels in the given string:", ", ".join(vowel\_list))

print("Total number of vowels:", vowel\_count)

count\_and\_display\_vowels(text\_string) # Call the function with the

given text string

output: Vowels in the given string: e, o, e, o, o, a, i, i

Total number of vowels: 8

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