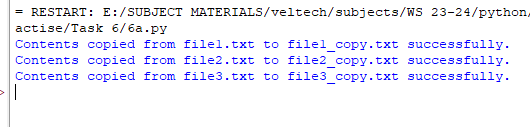
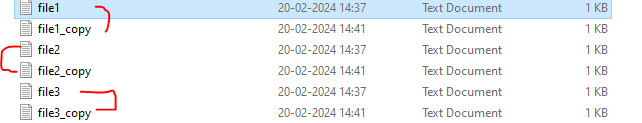
|  |  |
| --- | --- |
|  | **TASK 6 Implement various text file operations.**  **6.a**  In a famous tech firm, an employee is asked **to copy the contents of N no.of files to another N no. of files**. Fortunately, the employee has good knowledge in python scripting. So he plans to automate the copy operation by creating a copy function using python file handling operations. Assume you are that employee and implement the copy function to achieve the task.  Example:  Input:  ‘Asdfghjk’  File 1: (write contents from input to file 1)  Asdfghjk  Output: (copy the contents of file 1 to file 2)  File 2:  Asdfghjk  **PROGRAM**  def copy\_files(file\_paths):  for file\_path in file\_paths:  if os.path.exists(file\_path):  with open(file\_path, 'r') as original\_file:  original\_content = original\_file.read()  copy\_file\_path = file\_path.split('.')[0] + '\_copy.' + file\_path.split('.')[1]  with open(copy\_file\_path, 'w') as copy\_file:  copy\_file.write(original\_content)  print(f"Contents copied from {file\_path} to {copy\_file\_path} successfully.")  else:  print(f"Error: File '{file\_path}' not found.")  # Example usage:  import os  file\_list = ['file1.txt', 'file2.txt', 'file3.txt'] # List of file paths  copy\_files(file\_list)  **OUTPUT** |





**Problem 6.b:**

You need to write a report containing the details (Name, departments) of the employee in list. Write a Python function that writes this report to a file named employee\_report.txt

**Algorithm:**

1. Create Employee Data:
   * Define the function write\_employee\_report(filename):
     + Create a list employees containing dictionaries, each with "name" and "department" keys for individual employees.
2. Open File for Writing:
   * Open the file specified by filename in write mode using a with statement.
3. Write Employee Data to File:
   * Loop through each employee in the employees list:
     + For each employee, format a string as "Name: {employee['name']}, Department: {employee['department']}".
     + Write the formatted string to the file, followed by a newline character (\n).
4. Execute the Program:
   * Call write\_employee\_report("employee\_report.txt") to write the employee data to the file "employee\_report.txt".

**Program 6.b:**

def write\_employee\_report(filename):

employees = [

{"name": "Alice", "department": "HR"},

{"name": "Bob", "department": "Engineering"},

{"name": "Charlie", "department": "Finance"}

]

with open(filename, "w") as file:

for employee in employees:

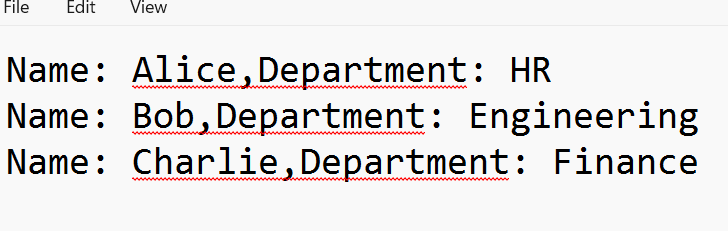
line = f"Name: {employee['name']}, Department: {employee['department']}\n"

file.write(line)

# Example usage:

write\_employee\_report("employee\_report.txt")

**output:**



**6.C.**

A teacher wants to save student notes in a text file, display the content, and count how many times a chosen word appears. Write a Python program for this.

**Sample Input and Output:**

Enter the file name: student\_notes.txt

Enter student notes (press Enter on an empty line to stop):

Python is fun

I love Python

Python Python Python

Coding in Python is great

File Content:

Python is fun

I love Python

Python Python Python

Coding in Python is great

Enter the word to count: Python

The word 'Python' occurs 6 times.

**PROGRAM:**

def teacher\_notes\_word\_count():

# Step 1: Create a file and write student notes

file\_name = input("Enter the file name: ")

with open(file\_name, 'w') as file:

print("Enter student notes (press Enter on an empty line to stop):")

while True:

line = input()

if not line:

break

file.write(line + '\n')

# Step 2: Display the content of the file

print("\nFile Content:")

with open(file\_name, 'r') as file:

content = file.read()

print(content)

# Step 3: Count occurrences of a chosen word

word = input("Enter the word to count: ")

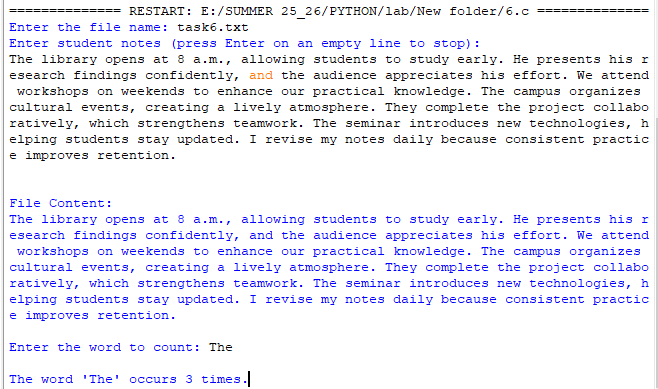
count = content.split().count(word)

print(f"\nThe word '{word}' occurs {count} times.")

# Run the program

teacher\_notes\_word\_count()

**Output:**



**6.D.**

A teacher wants to save student notes in a text file, display the content, and count how many times a chosen word appears. Write a Python program for this.

**Sample Input and Output:**

Enter CSV file name:data.csv

Student Records:

Id: 201, Name: John, Grade: A, Attendance: 92

Id: 202, Name: Linda, Grade: B, Attendance: 78

Id: 203, Name: Mark, Grade: C, Attendance: 85

Id: 204, Name: Susan, Grade: A, Attendance: 88

Id: 205, Name: Tom, Grade: B, Attendance: 90

Average Attendance: 86.60

**students.csv**

Id,Name,Grade,Attendance

101,Alice,A,90

102,Bob,B,85

103,Charlie,A,95

104,David,C,80

105,Eve,B,88

**PROGRAM:**

import csv

# Read CSV file

file\_name = input("Enter CSV file name: ")

records = []

with open(file\_name, 'r') as file:

reader = csv.reader(file)

next(reader) # Skip header

for row in reader:

records.append(row)

# Display all records

print("\nStudent Records:")

for r in records:

print(f"Id: {r[0]}, Name: {r[1]}, Grade: {r[2]}, Attendance: {r[3]}")

# Calculate average attendance

total = sum(int(r[3]) for r in records)

average = total / len(records)

print(f"\nAverage Attendance: {average:.2f}")

**Output:**

