# File Handling Practice Problems

## **Problem 1:**

Write a program in Python that reads a file named `notes.txt` and print its contents line by line.

Sample Input:

Python is fun.

Files are useful.

Practice makes perfect.

**Expected Output:** 

Python is fun.

Files are useful.

Practice makes perfect.

## **Problem 2:**

Write a program in Python that opens a file 'story.txt' and count:

- Total number of lines
- Total number of words
- Total number of characters

Sample Input:

She learns Python.

Every day she practices.

**Expected Output:** 

Lines: 2 Words: 7

Characters: 43

#### **Problem 3:**

Write a program in Python that takes input from the user line by line until they type `stop`. Write each line to `output.txt`.

Sample Input:

I love Python.

It is easy to learn.

stop

**Expected Output:** 

I love Python.

It is easy to learn.

# Problem 4:

Write a program in Python that copies content from 'source.txt' to 'destination.txt'.

Sample Input (source.txt):

Hello World

Welcome to Python

Expected Output (destination.txt):

Hello World

Welcome to Python

#### **Problem 5:**

Write a program in Python that counts how many times the word "python" appears in the file 'data.txt' (case-insensitive).

Sample Input:

Python is powerful.

I love python.

PYTHON is easy.

**Expected Output:** 

The word "python" appears 3 times.

#### **Problem 6:**

Write a program in Python that saves the following dictionary to `grades.txt` in `name: grade` format.

Dictionary:

{"Arif": 85, "Nila": 92, "Sabbir": 78}

Expected Output (grades.txt):

Arif: 85 Nila: 92 Sabbir: 78

#### **Problem 7:**

Write a program in Python that loads `grades.txt` content into a dictionary where name is key and grade is value.

# Sample Input:

Arif: 85 Nila: 92 Sabbir: 78

**Expected Output:** 

{"Arif": 85, "Nila": 92, "Sabbir": 78}

#### **Problem 8:**

Write a program in Python that loads `contacts.txt` into a dictionary, take new name and phone number as input, and append to the file.

Sample Input:

Sabbir: 12345 Sani: 67890

User Input: Name: Saima Number: 54321

**Expected Output:** 

Sabbir: 12345 Sani: 67890 Saima: 54321

### **Problem 9:**

Write a program in Python that stores the following nested dictionary into `employees.txt` in comma-separated format.

```
Dictionary:
```

```
{"101": {"name": "Rahim", "department": "IT"}, "102": {"name": "Karim", "department": "HR"}}
```

## **Expected Output:**

101, Rahim, IT 102, Karim, HR

# Problem 10:

Write a program in Python that reads 'employees.txt' and convert the contents into a nested dictionary.

```
Sample Input:

101, Rahim, IT

102, Karim, HR

Expected Output:

{"101": {"name": "Rahim", "department": "IT"}, "102": {"name": "Karim", "department": "HR"}}
```