

7. Writing a program in Java to create, read, update, and delete operations on the files in Java.

```
import java.io.File;
import java.io.IOException;
import java.util.Scanner;

public class FileOperations {

    public static void main(String[] args) throws IOException {

        // Create a new file
        File file = new File("example.txt");
        file.createNewFile();
        System.out.println("File created: " + file.getName());

        // Write to the file
        java.io.FileWriter writer = new java.io.FileWriter(file);
        writer.write("Hello, world!");
        writer.close();
        System.out.println("Write to file: " + file.getName());

        // Read from the file
        Scanner scanner = new Scanner(file);
        while (scanner.hasNextLine()) {
            String data = scanner.nextLine();
            System.out.println("Read from file: " + data);
        }
        scanner.close();

        // Update the file
        java.io.FileWriter updater = new java.io.FileWriter(file);
```

```

    updater.write("Updated content");
    updater.close();
    System.out.println("Update file: " + file.getName());

    // Read from the updated file
    scanner = new Scanner(file);
    while (scanner.hasNextLine()) {
        String data = scanner.nextLine();
        System.out.println("Read from updated file: " + data);
    }
    scanner.close();

    // Delete the file
    if (file.delete()) {
        System.out.println("File deleted: " + file.getName());
    } else {
        System.out.println("Failed to delete the file.");
    }
}
}

```

OUTPUT:

```

Exception in thread "main" java.io.IOException: Permission denied
    at java.base/java.io.UnixFileSystem.createFileExclusively(Native Method)
    at java.base/java.io.File.createNewFile(File.java:1035)
    at FileOperations.main(FileOperations.java:14)

```