week5 Session 2 Lab

Question 1 : Write a program to copy the contents of a file named source.txt to a new file named

destination.txt. Check if the source file exists before copying.

Answer:

```
const fs = require('fs');
const sourceFile = 'sourse.txt';
const destinationFile = 'destination.txt';

// Check if source file exists
if (fs.existsSync(sourceFile)) {
  // Read the source file
  fs.readFile(sourceFile, 'utf8', (err, data) => {
    if (err) {
      console.error('Error reading source file:', err);
      return;
    }

    // Write to the destination file
    fs.writeFile(destinationFile, data, (err) => {
      if (err) {
        console.error('Error writing to destination file:', err);
        return;
      }
      console.log('File copied successfully from source.txt to destination.txt.');
    });
```

```
  });
} else {
  console.error('Error: source.txt does not exist.');
}
```

Question 2 :

Write a program to merge the contents of two files, “file1.txt” and “file2.txt”, into a new file named “merged.txt”.

Answer:

```
const fs = require('fs');
// File names
const file1 = 'file1.txt';
const file2 = 'file2.txt';
const mergedFile = 'merged.txt';
// Read file1
fs.readFile(file1, 'utf8', (err1, data1) => {
  if (err1) {
    console.error(`Error reading ${file1}:`, err1);
    return;
  }
  // Read file2
  fs.readFile(file2, 'utf8', (err2, data2) => {
    if (err2) {
      console.error(`Error reading ${file2}:`, err2);
      return;
    }
```

```
    // Merge the contents
    const mergedContent = data1 + '\n' + data2;

    // Write to merged.txt
    fs.writeFile(mergedFile, mergedContent, (err) => {
      if (err) {
        console.error('Error writing merged.txt:', err);
        return;
      }
      console.log('Files merged successfully into merged.txt');
    });
  });
});
```