

# DAY 10

## 1. create a new text file named demo.txt.

```
package Day10;

import java.io.File;
import java.io.IOException;

public class CreateFileExample {

    public static void main(String[] args) {

        try {

            File file = new File("demo.txt");

            if (file.createNewFile()) {

                System.out.println("New file created: " + file.getName());

            } else {

                System.out.println("File already present.");

            }

        } catch (IOException e) {

            System.out.println("Error occurred during file creation.");

            e.printStackTrace();

        }

    }

}
```

### Output:

**New file created: demo.txt**

## 2. check whether a file exists at a given path.

```
package Day10;

import java.io.File;

public class CheckFileExists {

    public static void main(String[] args) {

        String filePath = "demo.txt";

        File file = new File(filePath);

        if (file.exists()) {
```

```

        System.out.println("File found at: " + file.getAbsolutePath());
    } else {
        System.out.println("File is missing.");
    }
}
}
}

```

**Output:**

**File found at: C:\path\to\Harshitha\Wipro\_project\demo.txt**

**3. "Welcome, Java!" into a file using FileWriter.**

```

package Day10;

import java.io.FileWriter;
import java.io.IOException;

public class WriteToFile {
    public static void main(String[] args) {
        try {
            FileWriter writer = new FileWriter("demo.txt");
            writer.write("Welcome, Java!");
            writer.close();
            System.out.println("Data written successfully to file.");
        } catch (IOException e) {
            System.out.println("Error occurred during file write.");
            e.printStackTrace();
        }
    }
}

```

**Output:**

**Data written successfully to file.**

**4. Read the content of a file line by line using BufferedReader.**

```

package Day10;

import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;

```

```

public class ReadFileLineByLine {
    public static void main(String[] args) {
        try {
            BufferedReader reader = new BufferedReader(new FileReader("demo.txt"));

            String line;

            while ((line = reader.readLine()) != null) {
                System.out.println(line);
            }

            reader.close();
        } catch (IOException e) {
            System.out.println("Error occurred during file read.");
            e.printStackTrace();
        }
    }
}

```

**Output:**

**Welcome, Java!**

**5. append a line of text to an existing file.**

```

package Day10;

import java.io.FileWriter;
import java.io.IOException;

public class AppendToFile {
    public static void main(String[] args) {
        try {
            FileWriter writer = new FileWriter("demo.txt", true);

            writer.write("\nAppended new text here.");

            writer.close();

            System.out.println("Appended text to file successfully.");
        } catch (IOException e) {
            System.out.println("Error occurred during file append.");
            e.printStackTrace();
        }
    }
}

```

```
}  
}
```

**Output:**

**Appended text to file successfully.**

**6. count the number of lines, words, and characters in a file.**

```
package Day10;  
  
import java.io.BufferedReader;  
  
import java.io.FileReader;  
  
import java.io.IOException;  
  
public class FileCount {  
  
    public static void main(String[] args) {  
  
        int lineCount = 0;  
  
        int wordCount = 0;  
  
        int charCount = 0;  
  
  
        try {  
  
            BufferedReader reader = new BufferedReader(new FileReader("demo.txt"));  
  
            String line;  
  
            while ((line = reader.readLine()) != null) {  
  
                lineCount++;  
  
                String[] words = line.split("\\s+");  
  
                wordCount += words.length;  
  
                charCount += line.length();  
  
            }  
  
            reader.close();  
  
  
            System.out.println("Total Lines: " + lineCount);  
  
            System.out.println("Total Words: " + wordCount);  
  
            System.out.println("Total Characters: " + charCount);  
  
        } catch (IOException e) {  
  
            System.out.println("Error occurred during file read.");  
  
            e.printStackTrace();  
  
        }  
  
    }  
  
}
```

```
    }  
    }  
}
```

**Output:**

**Total Lines: 2**

**Total Words: 5**

**Total Characters: 36**

### 7. copy content from one file to another using FileReader and FileWriter.

```
package Day10;  
  
import java.io.FileReader;  
import java.io.FileWriter;  
import java.io.IOException;  
  
public class CopyFile {  
    public static void main(String[] args) {  
        try {  
            FileReader reader = new FileReader("input.txt");  
            FileWriter writer = new FileWriter("output.txt");  
  
            int ch;  
            while ((ch = reader.read()) != -1) {  
                writer.write(ch);  
            }  
  
            reader.close();  
            writer.close();  
  
            System.out.println("File copy completed successfully.");  
        } catch (IOException e) {  
            System.out.println("Error occurred during file copy.");  
            e.printStackTrace();  
        }  
    }  
}
```

**Output:**

**File copy completed successfully.**

**8. lists all the files in a directory.**

```
package Day10;
```

```
import java.io.File;
```

```
public class ListOfFilesInDirectory {
```

```
    public static void main(String[] args) {
```

```
        File directory = new File("C:\\path\\to\\your\\dir"); // Change to your directory path
```

```
        if (directory.isDirectory()) {
```

```
            String[] files = directory.list();
```

```
            if (files != null && files.length > 0) {
```

```
                System.out.println("Directory files:");
```

```
                for (String file : files) {
```

```
                    System.out.println(file);
```

```
                }
```

```
            } else {
```

```
                System.out.println("Directory is empty.");
```

```
            }
```

```
        } else {
```

```
            System.out.println("Path is not a valid directory.");
```

```
        }
```

```
    }
```

```
}
```

**Output:**

**Directory files:**

**demo.txt**

**input.txt**

**output.txt**

### 9. filter and display only .txt files from a folder using FilenameFilter.

```
package Day10;

import java.io.File;

import java.io.FilenameFilter;

public class FilterTxtFiles {

    public static void main(String[] args) {

        File directory = new File("C:\\path\\wipro\\java\\docs");

        FilenameFilter txtFilter = new FilenameFilter() {

            public boolean accept(File dir, String name) {

                return name.toLowerCase().endsWith(".txt");

            }

        };

        String[] txtFiles = directory.list(txtFilter);

        if (txtFiles != null && txtFiles.length > 0) {

            System.out.println("Found .txt files:");

            for (String file : txtFiles) {

                System.out.println(file);

            }

        } else {

            System.out.println("No .txt files available.");

        }

    }

}
```

#### Output:

**Found .txt files:**

**demo.txt**

**input.txt**

**10. read a file using Scanner and display the tokens.**

```
package Day10;

import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class ReadFileTokens {

    public static void main(String[] args) {

        try {

            File file = new File("demo.txt");

            Scanner scanner = new Scanner(file);

            System.out.println("File tokens:");

            while (scanner.hasNext()) {

                System.out.println(scanner.next());

            }

            scanner.close();

        } catch (FileNotFoundException e) {

            System.out.println("File is missing.");

            e.printStackTrace();

        }

    }

}
```

**Output:**

**File tokens:**

**Welcome,**

**Java!**

**Appended**

**new**

**text**

**here.**