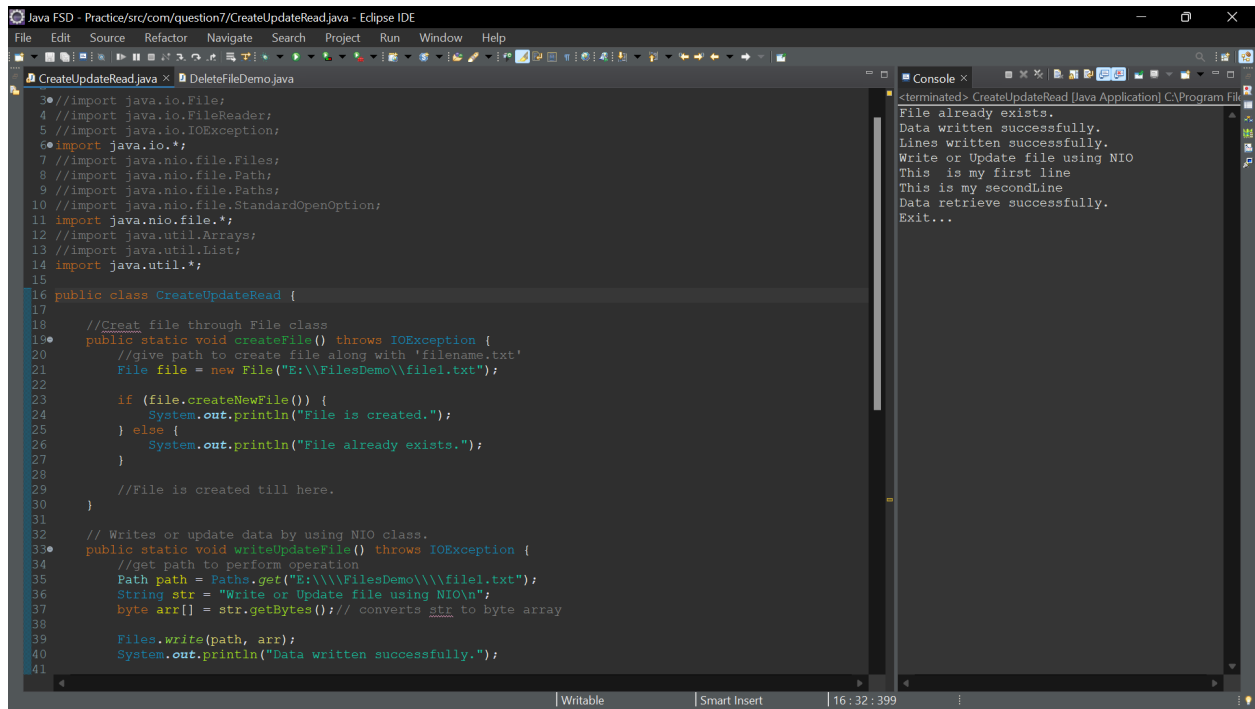


OUTPUTS ALONG CODE:



The screenshot displays the Eclipse IDE interface. The main editor window shows the source code for `CreateUpdateRead.java`. The code includes imports for `java.io` and `java.nio` packages, and defines two static methods: `createFile()` and `writeUpdateFile()`. The `createFile()` method uses `File.createNewFile()` to create a file and prints a message. The `writeUpdateFile()` method uses `Files.write()` to write data to a file and prints a success message. The console window on the right shows the output of the program, which includes the file creation status and the data written to the file.

```
3 //import java.io.File;
4 //import java.io.FileReader;
5 //import java.io.IOException;
6 import java.io.*;
7 //import java.nio.file.Files;
8 //import java.nio.file.Path;
9 //import java.nio.file.Paths;
10 //import java.nio.file.StandardOpenOption;
11 import java.nio.file.*;
12 //import java.util.Arrays;
13 //import java.util.List;
14 import java.util.*;
15
16 public class CreateUpdateRead {
17
18     //Creat file through File class
19     public static void createFile() throws IOException {
20         //give path to create file along with 'filename.txt'
21         File file = new File("E:\\FilesDemo\\file1.txt");
22
23         if (file.createNewFile()) {
24             System.out.println("File is created.");
25         } else {
26             System.out.println("File already exists.");
27         }
28
29         //File is created till here.
30     }
31
32     // Writes or update data by using NIO class.
33     public static void writeUpdateFile() throws IOException {
34         //get path to perform operation
35         Path path = Paths.get("E:\\\\FilesDemo\\\\file1.txt");
36         String str = "Write or Update file using NIO\n";
37         byte arr[] = str.getBytes();// converts str to byte array
38
39         Files.write(path, arr);
40         System.out.println("Data written successfully.");
41     }
42 }
```

Console Output:

```
<terminated> CreateUpdateRead [Java Application] C:\Program Files\Java\jdk-11.0.10\bin\java.exe
File already exists.
Data written successfully.
Lines written successfully.
Write or Update file using NIO
This is my first line
This is my secondLine
Data retrieve successfully.
Exit...
```

```
Java FSD - Practice/src/com/question7/CreateUpdateRead.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

CreateUpdateRead.java DeleteFileDemo.java

35 Path path = Paths.get("E:\\\\FilesDemo\\\\file1.txt");
36 String str = "Write or Update file using NIO\n";
37 byte arr[] = str.getBytes();// converts str to byte array
38
39 Files.write(path, arr);
40 System.out.println("Data written successfully.");
41
42
43 List<String> list=Arrays.asList("This is my first line","This is my secondLine");
44 Files.write(path, list, StandardOpenOption.APPEND);
45 //StandardOpenOption.APPEND is used to append new data along with old data.
46 //If we don't use this, then we can add data but old data will lost if exist.
47 System.out.println("Lines written successfully.");
48
49
50 }
51
52 //Reads through FileReader class
53 public static void readFile() throws IOException {
54     FileReader file = new FileReader("E:\\\\FilesDemo\\\\file1.txt");
55     int data;
56
57     while ((data = file.read()) != -1)
58         System.out.print((char)data);
59     System.out.println("Data retrieve successfully.");
60 }
61
62 public static void main(String[] args) {
63     try {
64         createFile();
65         writeUpdateFile();
66         readFile();
67     } catch (IOException e) {
68         System.out.println(e);
69     } finally {
70         System.out.println("Exit...");
71     }
72 }
73

Console x
<terminated> CreateUpdateRead [Java Application] C:\Program Files\
File already exists.
Data written successfully.
Lines written successfully.
Write or Update file using NIO
This is my first line
This is my secondLine
Data retrieve successfully.
Exit...
```

```
Java FSD - Practice/src/com/question7/DeleteFileDemo.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

CreateUpdateRead.java DeleteFileDemo.java x

1 //import java.io.*;
2 //import java.nio.file.Files;
3 //import java.nio.file.Paths;
4 //import java.nio.file.StandardOpenOption;
5 //import java.nio.file.*;
6
7 public class DeleteFileDemo {
8     //Create file through File class
9     public static void createFile() throws IOException {
10         //give path to create file along with 'filename.txt'
11         File file = new File("E:\\FilesDemo\\file2.txt");
12
13         if (file.createNewFile()) {
14             System.out.println("File is created.");
15         } else {
16             System.out.println("File already exists.");
17         }
18         //File is created till here.
19     }
20
21 // Delete file through main method
22 public static void main(String[] args) {
23     try {
24         createFile();
25
26         Path path= Paths.get("E:\\FilesDemo\\file2.txt");
27         if(Files.deleteIfExists(path))
28             System.out.println("File deleted");
29         else
30             System.out.println("File not exist");
31     } catch (IOException e) {
32         System.out.println(e);
33     } finally {
34         System.out.println("Exit...");
35     }
36 }
37
38
39
40
41
42
43
44
45

Console x
<terminated> DeleteFileDemo [Java Application] C:\Program Files\
File is created.
File deleted
Exit...
```