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Mail:vaishnavingole54@gmail.com

Day 20: Task 1: Java IO Basics Write a program that reads a text file and counts the frequency of each word using FileReader and FileWriter.

```
package com.wipro.assign20;
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.IOException;
import java.util.HashMap;
import java.util.Map;
public class Task1 {
     public static void main(String[] args) {
            String filePath = "D:\\data/myfile.txt";
           try (FileReader fileReader = new FileReader(filePath);
                BufferedReader bufferedReader = new
BufferedReader(fileReader)) {
               Map<String, Integer> wordCount = new HashMap<>();
               String line;
               while ((line = bufferedReader.readLine()) != null) {
                   String[] words = line.split("\\s+");
                   for (String word : words) {
                       word = word.toLowerCase();
                       wordCount.put(word,
wordCount.getOrDefault(word, 0) + 1);
               }
               for (Map.Entry<String, Integer> entry :
wordCount.entrySet()) {
                   System.out.println(entry.getKey() + ": " +
entry.getValue());
           } catch (IOException e) {
               System.err.println("Error reading the file: " +
e.getMessage());
```

```
}
}
```

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■ Package Explorer × 🕆 Type Hierarchy
                           E 8 8
 9 public class Task1 {
> 😂 Dav19Java
public static void main(String[] args) {
  > ■ JRE System Library [JavaSE-17]
                                                        String filePath = "D:\\data/myfile.txt";

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                                                       try (FileReader fileReader = new FileReader(filePath);
      > 🛭 FilelO.java
                                                               BufferedReader bufferedReader = new BufferedReader(fileReader)) {
      Task1.iava
     > 🛽 module-info.java
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                                                             Map<String, Integer> wordCount = new HashMap<>();
 ≥ Bav5DSA
 ₿ Day7Dsa
                                                             String line;

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                                                             while ((line = bufferedReader.readLine()) != null) {
 String[] words = line.split("\\s+");
for (String word : words) {
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    □ Java dav1

 word = word.toLowerCase();
 wordCount.put(word, wordCount.getOrDefault(word, 0) + 1);
 ₩ Javadav4
                                                             }
 for (Map.Entry<String, Integer> entry : wordCount.entrySet()) {
   System.out.println(entry.getKey() + ": " + entry.getValue());
                                          29
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                                                        } catch (IOException e) {
    System.err.println("Error reading the file: " + e.getMessage());
                                          32

    Problems @ Javadoc    Declaration    □ Console ×

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                                         <terminated> Task1 [Java Application] C:\Users\vaish\,p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.v20240120-1143\jre\bin\javaw.exe (Jun 2, 2024, 11)
                                         abcabcabcabcccccccccaabb: 1
                                         acbb: 1
```

Task 2: Serialization and Deserialization Serialize a custom object to a file and then deserialize it back to recover the object state.

```
package com.wipro.assign20;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;

public class SerilaizationDemo {
    public static void main(String[] args) {
        Person person = new Person("Rachel", 30);
    }
}
```

```
try (FileOutputStream fileOut = new
FileOutputStream("person.ser");
                     ObjectOutputStream out = new ObjectOutputStream(fileOut))
{
                    out.writeObject(person);
                    System.out.println("Person object serialized.");
             } catch (IOException e) {
                    e.printStackTrace();
             }
             try (FileInputStream fileIn = new
FileInputStream("person.ser");
                     ObjectInputStream in = new ObjectInputStream(fileIn)) {
                    Person deserializedPerson = (Person) in.readObject();
                    System.out.println("Deserialized person: " +
deserializedPerson.getName());
             } catch (IOException | ClassNotFoundException e) {
                    e.printStackTrace();
             }
      }
}
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                         E 8 8
                                   7 import java.io.ObjectOutputStream;
 > 🔀 Day18Assignment
                                   9 public class SerilaizationDemo {
> M JRE System Library [JavaSE-17]
                                  10⊝
                                         public static void main(String[] args) {
                                             Person person = new Person("Rachel", 30);
     > 🗓 FunctionalInterf.java
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     > 🛽 Pair.java
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     > Person java
                                             try (FileOutputStream fileOut = new FileOutputStream("person.ser");
     > 🕖 Reflect.java
                                                 ObjectOutputStream out = new ObjectOutputStream(fileOut)) {
     > D SortPerson.java
                                                 out.writeObject(person);
     > 🛭 Swap.java
                                                 System.out.println("Person object serialized.");
    > 🗓 module-info.java
                                             } catch (IOException e) {
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                                  20
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                                                 e.printStackTrace();
  > A JRE System Library [JavaSE-17]
  ∨ Æ src
    try (FileInputStream fileIn = new FileInputStream("person.ser");
     > 🗾 FilelO.java
                                                 ObjectInputStream in = new ObjectInputStream(fileIn)) {
     > 🕖 Person.java
     Person deserializedPerson = (Person) in.readObject();
     > 🗓 Task1.java
                                                 System.out.println("Deserialized person: " + deserializedPerson.getName());
                                  28
29
    > I module-info.java
                                             } catch (IOException | ClassNotFoundException e) {
> 📂 Day5DSA
                                                e.printStackTrace();
> 🔂 Day7Dsa
                                  30
> 📂 DSAAssignment
                                  31
                                         }
> 📂 Employee_project
                                  32 }
 > 📂 javaDay2
                                  Problems @ Javadoc Declaration Console X
> 📂 JavaDay2p2
                                  < terminated > Serilaization Demo\ [Java\ Application]\ C:\\ \ Users \ Vaish\ p2\ pool\ pugins\ org. eclipse. justj. openjdk. hotspot. jre. full.win32.x86\_64\_17.0.10.v202401
> 3 JavaDav3
                                  Person object serialized.
> # Javadav4
                                  Deserialized person: Rachel
> ≌ JDBCDay4
> 📂 JDBCdemoday4
```

Task 3: New IO (NIO) Use NIO Channels and Buffers to read content from a file and write to another file.

```
package com.wipro.assign20;
import java.io.IOException;
import java.nio.ByteBuffer;
import java.nio.channels.FileChannel;
import java.nio.file.Path;
import java.nio.file.Paths;
import java.nio.file.StandardOpenOption;
public class FileNIO {
      public static void main(String[] args) {
             Path sourcePath = Paths.get("D:\\data/file.txt");
             Path targetPath = Paths.get("D:\\\data/myfile.txt");
             try (FileChannel sourceChannel =
FileChannel.open(sourcePath, StandardOpenOption.READ);
                  FileChannel targetChannel =
FileChannel.open(targetPath, StandardOpenOption.CREATE,
                          StandardOpenOption.WRITE()) {
                 ByteBuffer buffer = ByteBuffer.allocate(1024);
                 while (sourceChannel.read(buffer) != -1) {
                     buffer.flip();
                     targetChannel.write(buffer);
                     buffer.clear();
                 }
                 System.out.println("File copied successfully!");
             } catch (IOException e) {
                 e.printStackTrace();
             }
         }
}
```

```
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→ 🐸 Day18Assignment
                                        10 public class FileNIO {
> M JRE System Library [JavaSE-17]
                                       public static void main(String[] args) {

Path sourcePath = Paths.get("D:\\data/file.txt");

Path targetPath = Paths.get("D:\\\data/myfile.txt");
                                       try (FileChannel sourceChannel = FileChannel.open(sourcePath, StandardOpenOption.READ);
FileChannel targetChannel = FileChannel.open(targetPath, StandardOpenOption, READ);
StandardOpenOptics (Note: The Channel open)
   ✓ № com.wipro.assign19

☑ FunctionalInterf.java

     > 🛭 Pair.java
     > Person.java
                                                              FileChannel targetChannel = FileChannel.open(targetPath, StandardOpenOption.CREATE,
     > A Reflect.iava
     >  SortPerson.java
      >  Swap.iava
                                                          ByteBuffer buffer = ByteBuffer.allocate(1024);
∠ 🎏 Day20Task
                                                            while (sourceChannel.read(buffer) != -1) {

    ▲ JRE System Library [JavaSE-17]
                                                                  buffer.flip();
targetChannel.write(buffer);
   buffer.clear();
     > 

FilelO.java
     > 🗓 FileNIO.java
     > II HTTPDemo.java
                                                             System.out.println("File copied successfully!");
     > II HTTPExample.java
                                                     } catch (IOException e) {
                                                       e.printStackTrace();
}
     > 🔑 Person.java
     >  SerilaizationDemo.iava
       ☐ Task1.java
   > 🗓 module-info.java
                                       32 }
33
> 📂 Day5DSA
⇒ # Day7Dsa
 Problems @ Javadoc Declaration Console ×
⇒ ₩ Employee project
                                          rminated > FileNIO [Java Application] C.\Users\vaish\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.v20240120-1143\jre\bin\javaw.exe (Jun 2, 2024, 11:27:3
> 📂 Java_day1
                                       File copied successfully!
> ⊯ javaDay2
 > 🞏 JavaDav3
```

Task 4: Java Networking Write a simple HTTP client that connects to a URL, sends a request, and displays the response headers and body.

```
package com.wipro.assign20;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.URL;
import java.util.List;
import java.util.Map;
public class HTTPExample {
     public static void main(String[] args) {
        String urlString = "https://www.google.com/";
        try {
            URL url = new URL(urlString);
            HttpURLConnection connection = (HttpURLConnection)
url.openConnection();
            connection.setRequestMethod("GET");
```

```
int responseCode = connection.getResponseCode();
            System.out.println("Response Code: " + responseCode);
            Map<String, List<String>> headers =
connection.getHeaderFields();
            for (Map.Entry<String, List<String>> entry :
headers.entrySet()) {
                String headerName = entry.getKey();
                for (String value : entry.getValue()) {
                    System.out.println(headerName + ": " + value);
                }
            }
            BufferedReader in = new BufferedReader(new
InputStreamReader(connection.getInputStream()));
            String inputLine;
            StringBuilder responseBody = new StringBuilder();
            while ((inputLine = in.readLine()) != null) {
                responseBody.append(inputLine);
            in.close();
            System.out.println("Response Body:");
            System.out.println(responseBody.toString());
        } catch (IOException e) {
            e.printStackTrace();
    }
}
```

```
💶 Package Explorer x 🔭 Type Hierarchy 📅 🖸 🗜 EmployeeNot... 🖟 EmployeeMai... 🔑 Reflectjava 🖟 FilelOjava 🖟 Serilaizatio... 🔑 Personjava 🖟 HTTPDemojava 🖟 HTTPExample...
                            □ ⑤ ⑤ ⑥ 1 package com.wipro.assign20;
3 import java.io.BufferedReader;
4 import java.io.IOException;
  > 🛋 JRE System Library [JavaSE-17]
 v 🕮 src
                                          5 import java.io.InputStreamReader;
                                          6 import java.net.HttpURLConnection;
      7 import java.net.URL;
8 import java.util.List;
        Pair.java
      > Person.iava
                                           9 import java.util.Map;
      > 🔝 Reflect.java
      > D SortPerson.java
                                          11 public class HTTPExample {
120 public static void main(String[] args) {
      > 🗓 Swap.java
    > 🗓 module-info.java
                                                    String urlString = "https://www.google.com/";
✓ 🎏 Day20Task
                                                      try {
  ⇒ Mark System Library [JavaSE-17]
                                                           URL url = new URL(urlString):

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src

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      > II FileIO.iava
                                          18
      > I HTTPDemo.java
                                                           HttpURLConnection connection = (HttpURLConnection) url.openConnection();
      HTTPExample.java
                                                          connection.setRequestMethod("GET");
      > 

SerilaizationDemo.java
      > 🛭 Task1.java
                                          24
    > M module-info.iava
                                                           int responseCode = connection.getResponseCode();
> 👺 Day5DSA
                                                           System.out.println("Response Code:
                                                                                                    + responseCode);
> # Dav7Dsa
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    □ DSAAssignment
    □

> # Employee_project
                                         > 👺 Java_day1
                                         <terminated> HTTPExample [Java Application] C\Users\vaish\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.10.v20240120-1143\jre\bin\javaw.exe (Jun 2, 2)
> 😂 javaDay2
> 😂 JavaDay2p2
                                         Response Code: 200
                                         Transfer-Encoding: chunked
null: HTTP/1.1 200 OK
> 🞏 JavaDay3
> 🔐 Javaday4
                                         Alt-Svc: h3=":443"; ma=2592000,h3-29=":443"; ma=2592000
 Server: gws
P3P: CP="This is not a P3P policy! See g.co/p3phelp for more info."
> 3 JDBCdemoday4
                                         Date: Sun, 02 Jun 2024 17:52:18 GMT
                                         Accept-Ranges: none
```

Task 5: Java Networking and Serialization Develop a basic TCP client and server application where the client sends a serialized object with 2 numbers and operation to be performed on them to the server, and the server computes the result and sends it back to the client. for eg, we could send 2, 2, "+" which would mean 2 + 2

```
package com.wipro.assign20;
import java.io.Serializable;
public class Data implements Serializable {
    private static final long serialVersionUID = 1L;
    private int number1;
    private int number2;
    private String operation;
    public Data(int number1, int number2, String operation) {
        this.number1 = number1;
        this.number2 = number2;
        this.operation = operation;
    }
}
```

```
public int getNumber1() {
        return number1;
    }
    public int getNumber2() {
        return number2;
    }
    public String getOperation() {
        return operation;
    }
}
package com.wipro.assign20;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.IOException;
import java.net.ServerSocket;
import java.net.Socket;
public class TCPServer {
    public static void main(String[] args) {
        try (ServerSocket serverSocket = new ServerSocket(9876)) {
            System.out.println("Server is listening on port 9876");
            while (true) {
                Socket socket = serverSocket.accept();
                new ServerThread(socket).start();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
class ServerThread extends Thread {
    private Socket socket;
    public ServerThread(Socket socket) {
        this.socket = socket;
    }
    public void run() {
```

```
try (ObjectInputStream input = new
ObjectInputStream(socket.getInputStream());
             ObjectOutputStream output = new
ObjectOutputStream(socket.getOutputStream())) {
            Data data = (Data) input.readObject();
            int result = performOperation(data);
            output.writeObject(result);
            output.flush();
        } catch (IOException | ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
    private int performOperation(Data data) {
        int number1 = data.getNumber1();
        int number2 = data.getNumber2();
        String operation = data.getOperation();
        switch (operation) {
            case "+":
                return number1 + number2;
            case "-":
                return number1 - number2;
            case "*":
                return number1 * number2;
            case "/":
                if (number2 != 0) {
                    return number1 / number2;
                    throw new ArithmeticException("Division by zero");
                }
            default:
                throw new UnsupportedOperationException("Unsupported
operation: " + operation);
    }
}
package com.wipro.assign20;
import java.io.IOException;
import java.io.ObjectInputStream;
```

```
import java.io.ObjectOutputStream;
import java.net.Socket;
public class Client {
    public static void main(String[] args) {
        String hostname = "localhost";
        int port = 9876;
        try (Socket socket = new Socket(hostname, port);
             ObjectOutputStream output = new
ObjectOutputStream(socket.getOutputStream());
             ObjectInputStream input = new
ObjectInputStream(socket.getInputStream())) {
            // Send operation data to the server
           Data data = new Data(2, 2, "+");
            output.writeObject(data);
            output.flush();
            // Receive the result from the server
            int result = (int) input.readObject();
            System.out.println("Result: " + result);
        } catch (IOException | ClassNotFoundException e) {
            e.printStackTrace();
        }
   }
}
```

```
eclipse-workspaceWp - Day20Task/src/com/wipro/assign20/TCPServer.java - Eclipse IDE
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> 🐸 Day18Assignment
                                                                                                   3 import java.io.ObjectInputStream;
4 import java.io.ObjectOutputStream;
5 import java.io.IOException;
6 import java.net.ServerSocket;
7 import java.net.Socket;
8 public class TCPServer {
10 public static void main(String[] args) {
11 try (ServerSocket serverSocket = new ServerSocket(9876)) {
12 System.out.println("Server is listening on port 9876");
13

∨ № Dav19Java

      > M JRE System Library [JavaSE-17]
                > D Pair.java
               > Person.iava
               > 🔑 Reflect.java
               > 

SortPerson.java
                   Swap.java
           > 1 module-info.iava
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                                                                                                                                           while (true) {
                                                                                                                                                             Socket socket = serverSocket.accept();
new ServerThread(socket).start();
       > March JRE System Library [JavaSE-17]
      ∨ 🎏 src
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                                                                                                                               } catch (IOException e) {
               > 🗓 Client.java
                Data.java
                                                                                                                                               e.printStackTrace();
                                                                                                                                     }
               > 🛽 FilelO.java
                                                                                                        20
                 > II FileNIO.iava
               > II HTTPDemo.iava
                                                                                                        22 }
                 > II HTTPExample.java
                                                                                                      24 class ServerThread extends Thread {
                > 🔑 Person.java
                 > 🗓 SerilaizationDemo.java
                                                                                                                        private Socket socket;
               → In Task1.iava
                                                                                                      26

☑ TCPServer.java

           > 🗓 module-info.java
                                                                                                     Problems @ Javadoc  □ Declaration □ Console ×
    TCPServer [Java Application] \ C\Users\vaish\p2\pool\plugins\vorg.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_17.0.10.v20240120-1143\yre\bin\javaw.exe \ (Jun 2, 2024, 11:33:46 PM, 2024, 11:33:46 PM, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2024, 2

₱ Day7Dsa

                                                                                                      Server is listening on port 9876

    □ DSAAssignment
    □

    > 😂 JavaDav3
```

Task 6: Java 8 Date and Time API Write a program that calculates the number of days between two dates input by the user.

```
package com.wipro.assign20;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.time.temporal.ChronoUnit;
import java.util.Scanner;

public class DateApi {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        DateTimeFormatter formatter =

DateTimeFormatter.ofPattern("yyyy-MM-dd");

        System.out.print("Enter the first date (yyyy-MM-dd): ");
        String firstDateString = scanner.nextLine();
        LocalDate firstDate = LocalDate.parse(firstDateString, formatter);

        System.out.print("Enter the second date (yyyy-MM-dd): ");
```

```
String secondDateString = scanner.nextLine();
                                                     LocalDate secondDate = LocalDate.parse(secondDateString,
formatter);
                                                     long daysBetween = ChronoUnit.DAYS.between(firstDate,
secondDate);
                                                    System.out.println("Number of days between " + firstDate + "
and " + secondDate + " is: " + daysBetween);
 }
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FunctionalInterf.java
                                                                                                                                  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    DateTimeFormatter formatter = DateTimeFormatter.ofPattern("yyyy-MM-dd");
                  > D Pair.java

    Person.java
    Reflect.java
                  >  SortPerson.iava
                                                                                                                                                 System.out.print("Enter the first date (yyyy-MM-dd): ");
String firstDateString = scanner.nextLine();
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23
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              > 1 module-info.java
  ✓ 

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M JRE System Library [JavaSE-17]
                                                                                                                                                 LocalDate firstDate = LocalDate.parse(firstDateString, formatter);
                                                                                                                                                  System.out.print("Enter the second date (yyyy-MM-dd): ");
             String secondDateString = scanner.nextLine();
LocalDate secondDate = LocalDate.parse(secondDateString, formatter);

    Client.iava

                   > 📝 Data.iava
                   DateApi.java
                                                                                                                                                 long daysBetween = ChronoUnit.DAYS.between(firstDate, secondDate);
                   > II FileIO.iava
                   > 

FileNIO.java
                  > II HTTPDemo.java
                                                                                                                                                  System.out.println("Number of days between " + firstDate + " and " + secondDate + " is: " + daysBetween);
                  > I HTTPExample.java
> I Person.java
                                                                                                                                   }
                                                                                                                  27 }
                  >   SerilaizationDemo.iava
                                                                                                               28
                   > 🛭 Task1.java
                    > III TCPServer.java
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              > 🗓 module-info.java
      Enter the first date (yyyy-MM-dd): 2024-06-21
Enter the second date (yyyy-MM-dd): 2023-12-21
Number of days between 2024-06-21 and 2023-12-21 is: -183

☑ DSAAssignment

      > 👺 JavaDay2p2
      ⇒ 💕 Javaday4
```