## **DSCC Practical 6**

1. Write a java program to access the files from your Google drive account and read and write the file contents from your program.

## Code:

```
package in.ac.famt.practical6;
import com.google.api.client.auth.oauth2.Credential;
import com.google.api.client.extensions.java6.auth.oauth2.AuthorizationCodeInstalledApp;
import com.google.api.client.extensions.jetty.auth.oauth2.LocalServerReceiver;
import com.google.api.client.googleapis.auth.oauth2.GoogleAuthorizationCodeFlow;
import com.google.api.client.googleapis.auth.oauth2.GoogleClientSecrets;
import com.google.api.client.googleapis.javanet.GoogleNetHttpTransport;
import com.google.api.client.http.AbstractInputStreamContent;
import com.google.api.client.http.FileContent;
import com.google.api.client.http.HttpResponse;
import com.google.api.client.http.InputStreamContent;
import com.google.api.client.http.javanet.NetHttpTransport;
import com.google.api.client.json.JsonFactory;
import com.google.api.client.json.jackson2.JacksonFactory;
import com.google.api.client.util.store.FileDataStoreFactory;
import com.google.api.services.drive.Drive;
import com.google.api.services.drive.DriveScopes;
import com.google.api.services.drive.model.File;
import com.google.api.services.drive.model.FileList;
import java.io.*;
import java.nio.charset.StandardCharsets;
import java.security.GeneralSecurityException;
import java.util.Collections;
import java.util.List;
public class Q1 {
  private static final JsonFactory JSON_FACTORY = JacksonFactory.getDefaultInstance();
  private static final java.io.File CREDENTIALS FOLDER = new
java.io.File("D:\\SYMCA\\Semester-III\\L2 DSCC\\DSCC Practicals");
  private static final List<String> SCOPES = Collections.singletonList(DriveScopes.DRIVE);
  private static Credential getCredentials(final NetHttpTransport HTTP TRANSPORT) throws
IOException {
```

```
java.io.File clientSecretFilePath = new java.io.File("D:\\SYMCA\\Semester-III\\L2
DSCC\\DSCC Practicals\\credentials.json");
    if (!clientSecretFilePath.exists()) {
      throw new FileNotFoundException("Please copy credentials.");
    InputStream in = new FileInputStream(clientSecretFilePath);
    GoogleClientSecrets clientSecrets = GoogleClientSecrets.load(JSON FACTORY, new
InputStreamReader(in));
    GoogleAuthorizationCodeFlow flow = new
GoogleAuthorizationCodeFlow.Builder(HTTP TRANSPORT, JSON FACTORY,
        clientSecrets, SCOPES).setDataStoreFactory(new
FileDataStoreFactory(CREDENTIALS FOLDER))
        .setAccessType("offline").build();
    return new AuthorizationCodeInstalledApp(flow, new
LocalServerReceiver()).authorize("user");
  }
  public static void main(String[] args) throws IOException, GeneralSecurityException {
    final NetHttpTransport HTTP_TRANSPORT =
GoogleNetHttpTransport.newTrustedTransport();
    Credential credential = getCredentials(HTTP TRANSPORT);
    Drive service = new Drive.Builder(HTTP TRANSPORT, JSON FACTORY,
credential).setApplicationName("GDrive Access").build();
    // Example: Reading file contents
    String fileId = "1hBt BZ1z 49uUJeYQ9aYwhmomIAqIAOJ"; // Replace with actual file ID
    ByteArrayOutputStream outputStream = new ByteArrayOutputStream();
    service.files().get(fileId).executeMediaAndDownloadTo(outputStream);
    String fileContent = new String(outputStream.toByteArray(), StandardCharsets.UTF_8);
    System.out.println("File Content:\n\n" + fileContent);
    // Example: Writing file contents
    String updatedContent = "This is the updated content.";
    InputStreamContent mediaContent = new InputStreamContent("text/plain", new
ByteArrayInputStream(updatedContent.getBytes(StandardCharsets.UTF_8)));
    File fileMetadata = new File();
    fileMetadata.setName("MyGDriveJavaFile.txt"); // Replace with the actual file name
    service.files().update(fileId, fileMetadata, mediaContent).execute();
    System.out.println("File Content updated successfully.");
 }
}
```

## **Output:**







