# **ASSIGNMENT 1: PART B**

### TASK A: Flowchart of the work.

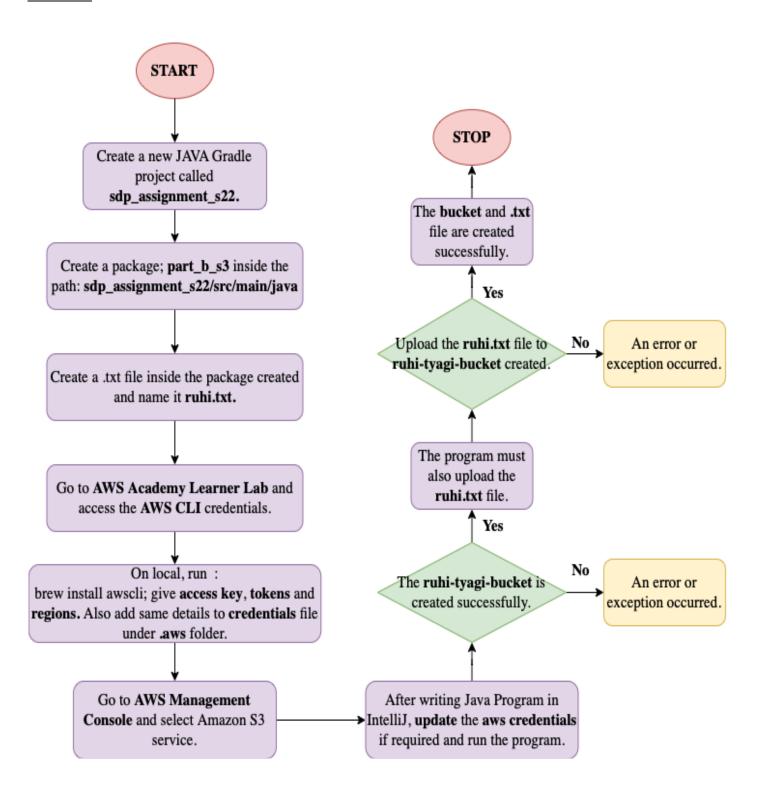


Figure 1. Flowchart of part B.

# TASK B: A paragraph on overall observation of AWS SDK for Java.

The AWS SDK for Java provides a Java API for AWS services. The SDK allows users to quickly construct Java apps that interact with Amazon S3, Amazon EC2, DynamoDB, and other services [1]. Gradle's improved POM support capability can be used to import BOM files by defining a reliance on a BOM, which I did because I built the project with Gradle v5.0+. I was using Gradle 7.4.1, and I didn't have to use the enableFeaturePreview command; instead, I just implemented the dependency directly. The ease with which users may connect to and use AWS's services was a major benefit of the AWS SDK for Java. A developer can use a range of built-in classes and methods to manipulate the services. I used two in-built methods where the first of which was to create a bucket using the createBucket() method, which made things a lot easier because all I had to do was provide the bucketName and the bucket was formed in AmazonS3. Similarly, with the second method, I can use the putObject() function to upload a file to that bucket or any other existing bucket, which requires the bucket name, file name, and the file to be uploaded. As a result, using the AWS SDK for Java made it extremely easy to implement any concept as well as add more capabilities without having to write the boilerplate code.

<u>TASK C</u>: Screenshots of all the steps performed in creating bucket and uploading txt file in Amazon S3.

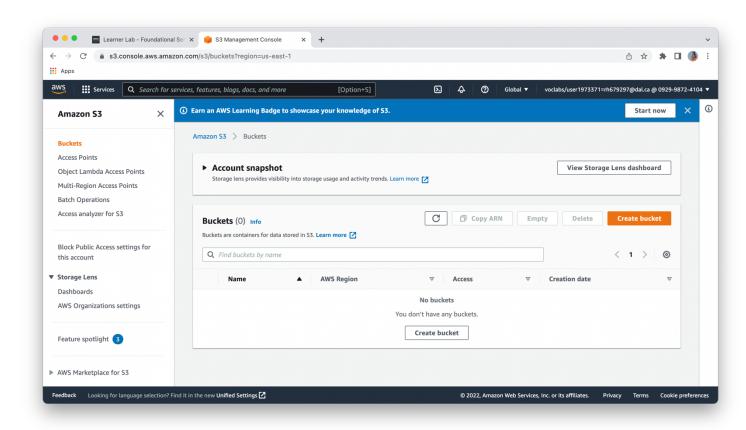


Figure 1. Screenshot of the Amazon S3 service BEFORE creating the bucket.

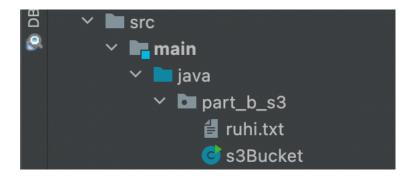


Figure 2. Screenshot of part B package from IntelliJ.

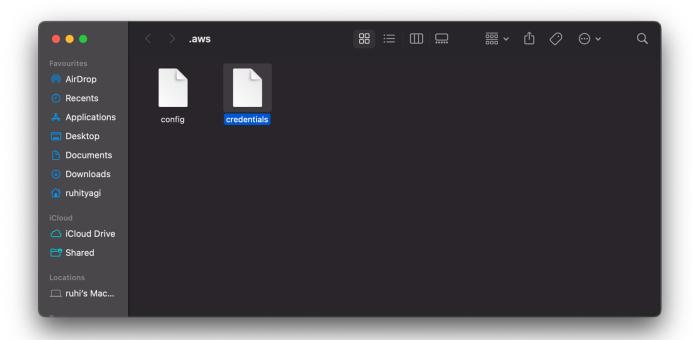


Figure 3. Screenshot of .aws folder.

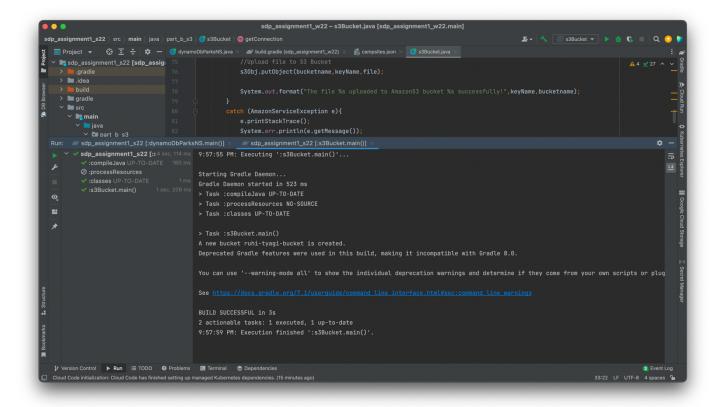


Figure 4. Screenshot of successful creation of ruhi-tyagi-bucket by JAVA program [2].

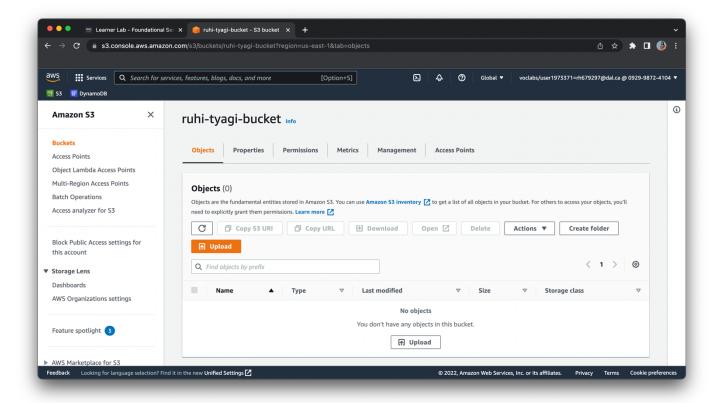


Figure 5. Screenshot of empty bucket.

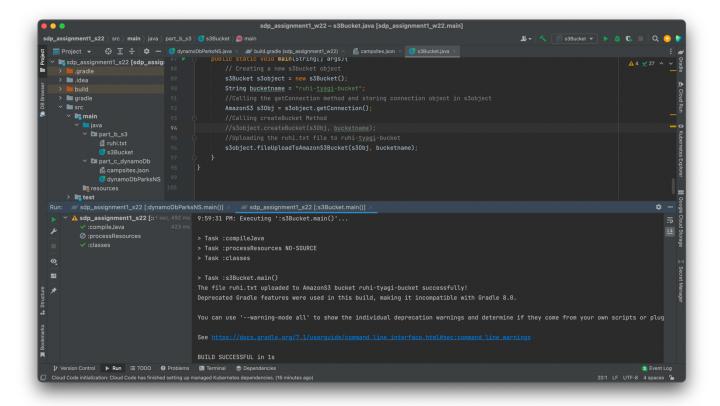


Figure 6. Screenshot of successful upload of ruhi.txt file in IntelliJ output [3].

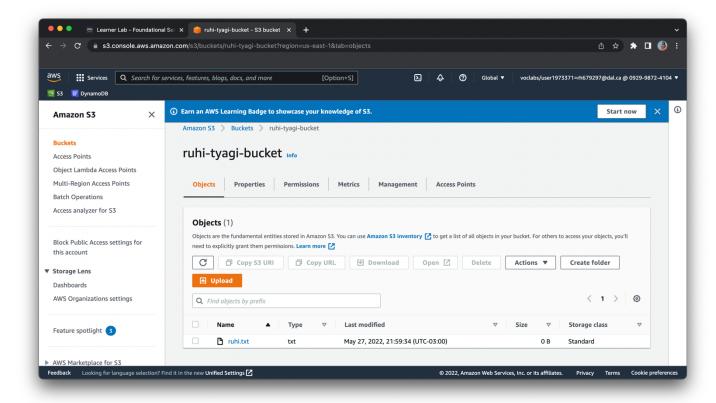


Figure 7. Screenshot of successful upload of ruhi.txt file on Amazon S3.

## TASK D: Code snapshot.

### s3Bucket.java:

```
public AmazonS3 getConnection(){
.build();
e.printStackTrace();
```

<u>Link to gitlab:</u> https://git.cs.dal.ca/rtyagi/csci5410\_b00872269\_ruhirajnish\_tyagi/-/tree/main/src/main/iava/part\_b\_s3

#### **REFERENCES:**

- [1] "Developer guide AWS SDK for Java 2.x", *AWS*, 2022. [Online]. Available: https://docs.aws.amazon.com/sdk-for-java/latest/developer-guide/home.html. [Accessed: 25- May- 2022]
- [2] "Creating, Listing, and Deleting Amazon S3 Buckets", *AWS*, 2022. [Online]. Available: https://docs.aws.amazon.com/sdk-for-java/v1/developer-guide/examples-s3-buckets.html. [Accessed: 25- May-2022]
- [3] "Uploading objects", *AWS*, 2022. [Online]. Available: https://docs.aws.amazon.com/AmazonS3/latest/userguide/upload-objects.html. [Accessed: 25- May- 2022]