

Cloud Computing Assignment:

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Assignment 1: Write a Java console program to accept customer data (custid, name, age and city) from user , store them in a text file, upload to aws s3 bucket from your program?

Java program:

S3Uploader.java

```
package com.example;

import com.amazonaws.auth.AWSSStaticCredentialsProvider;
import com.amazonaws.auth.BasicAWSCredentials;
import com.amazonaws.services.s3.AmazonS3;
import com.amazonaws.services.s3.AmazonS3ClientBuilder;
import com.amazonaws.services.s3.model.PutObjectRequest;

import java.io.File;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;

public class S3Uploader {

    private static final String ACCESS_KEY = "";
    private static final String SECRET_KEY = "";
    private static final String REGION = "";
    private static final String BUCKET_NAME = "";

    public static void main(String[] args) {
        BasicAWSCredentials awsCreds = new BasicAWSCredentials(ACCESS_KEY,
SECRET_KEY);
        AmazonS3 s3Client = AmazonS3ClientBuilder.standard()
            .withRegion(REGION)
            .withCredentials(new
AWSSStaticCredentialsProvider(awsCreds))
            .build();

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter customer ID: ");
```

```

String custid = scanner.nextLine();

System.out.print("Enter customer name: ");
String name = scanner.nextLine();

System.out.print("Enter customer age: ");
String age = scanner.nextLine();

System.out.print("Enter customer city: ");
String city = scanner.nextLine();

File customerFile = new File(custid + ".txt");
try (FileWriter writer = new FileWriter(customerFile)) {
    writer.write("Customer ID: " + custid + "\n");
    writer.write("Name: " + name + "\n");
    writer.write("Age: " + age + "\n");
    writer.write("City: " + city + "\n");
    System.out.println("File Created!");
} catch (IOException e) {
    System.err.println("Error creating customer file: " +
e.getMessage());
    return;
}

PutObjectRequest request = new PutObjectRequest(BUCKET_NAME,
custid + ".txt", customerFile);
s3Client.putObject(request);

System.out.println("Customer file uploaded to S3: " + BUCKET_NAME
+ "/" + custid + ".txt");
}
}

```

Output:

Console ×

```
<terminated> S3Uploader [Java Application] D:\Tools\sts-4.19.0.RELEASE\plugins\org.eci
Enter customer ID: 105
Enter customer name: Naveen
Enter customer age: 22
Enter customer city: London
File Created!
Jan 22, 2024 3:13:11 PM com.amazonaws.util.Base64 warn
WARNING: JAXB is unavailable. Will fallback to SDK implementation
Customer file uploaded to S3: 2024buckets/105.txt
```

Amazon S3 > Buckets > 2024buckets

2024buckets [Info](#)

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (3) [Info](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 > [Settings](#)

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	1001.txt	txt	January 20, 2024, 14:58:58 (UTC+05:30)	53.0 B	Standard
<input type="checkbox"/>	1002.txt	txt	January 20, 2024, 14:48:05 (UTC+05:30)	50.0 B	Standard
<input type="checkbox"/>	105.txt	txt	January 22, 2024, 15:13:14 (UTC+05:30)	51.0 B	Standard