Documentation on the steps followed:

1. **S3 Setup:**

   - Create a new S3 bucket using the AWS S3 dashboard.

   - Upload multiple files to this bucket, ensuring that some files are older than 30 days.

2. **Lambda IAM Role:**

   - Create a new IAM role in the AWS IAM dashboard for Lambda.

   - Attach the **AmazonS3FullAccess** policy to the role. This policy grants full access to S3, allowing the Lambda function to list and delete objects.

3. **Lambda Function:**

   - Create a new Lambda function in the AWS Lambda dashboard.

   - Choose Python 3.x as the runtime.

   - Assign the IAM role created earlier to the Lambda function.

   - Use the provided Python script that uses Boto3 to:

     - Initialize a boto3 S3 client.

     - List objects in the specified S3 bucket.

     - Delete objects older than 30 days.

     - Print the names of deleted objects for logging purposes.

4. **Manual Invocation:**

   - Save the Lambda function.

   - Manually trigger the Lambda function.

   - Go to the S3 dashboard and confirm that only files newer than 30 days remain after the cleanup. The logs will show the names of deleted objects if any.