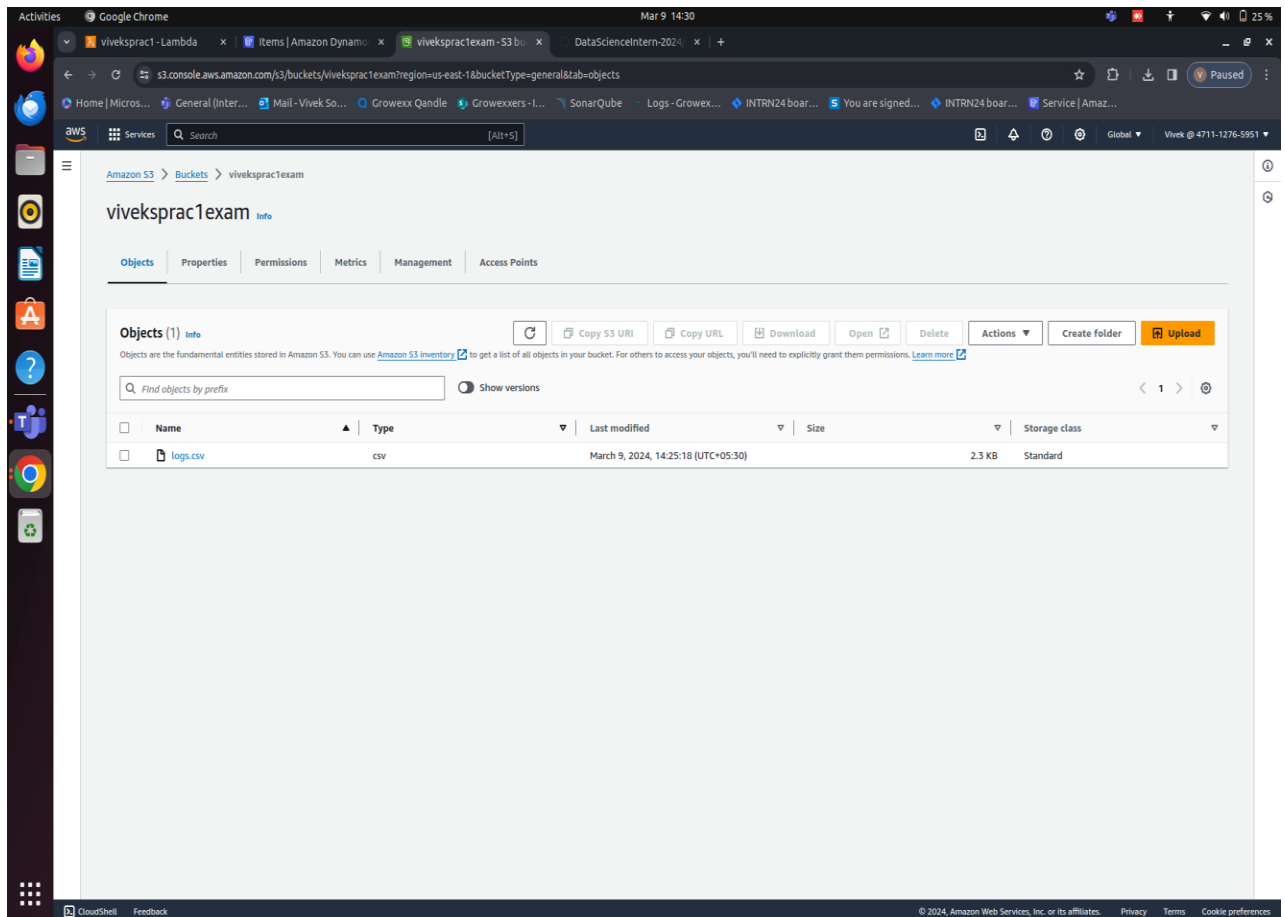# Practical 1:

1. Create a lamda function which reads credential reports file and save output into DynamoDb.

2. Take header as key and values as value Dynamo DB

Lambda | us-east-1   ×   Items | Amazon Dynamo   ×   viveksprac1exam - S3 bu   ×   DataScienceIntern-2024   ×   +

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/viveksprac1?tab=code   V Paused

Home | Micros...   General (Inter...   Mail - Vivek So...   Growexx Qandle   Growexxers - I...   SonarQube   Logs - Growex...   INTRN24 boar...   You are signed...   INTRN24 boar...   Service | Amaz...

aws   Services   Q Search   [Alt+S]   N. Virginia ▼   Vivek @ 4711-1276-5951 ▼

Diagram   Template   Description
                                                       -
                viveksprac1   Last modified
                                                       25 minutes ago
                Layers   (0)
                                                       Function ARN
                                                       arn:aws:lambda:us-east-1:471112765951:function:viveksprac1
    S3   Add destination
                                                       Function URL   Info
    + Add trigger   -

Code   Test   Monitor   Configuration   Aliases   Versions

Code source   Info   Upload from ▼

File   Edit   Find   View   Go   Tools   Window   Test ▼   Deploy   Changes not deployed

Go to Anything (Ctrl-P)   lambda_function ×   Environment Var ×   Execution results ×

```
      7
viveksprac1          8    DYNAMODB_TABLE_NAME = 'vivekstable'
  lambda_function.py 9    s3 = boto3.client('s3')
                    10
                    11    def lambda_handler(event, context):
                    12        print(event)
                    13
                    14        s3_bucket = event['Records'][0]['s3']['bucket']['name']
                    15        s3_key = event['Records'][0]['s3']['object']['key']
                    16
                    17        response = s3.get_object(Bucket=s3_bucket, Key=s3_key)
                    18        csv_content = response['Body'].read().decode('utf-8')
                    19
                    20        file_path = '/tmp/logs.csv'
                    21        with open(file_path, 'w') as temp_file:
                    22            temp_file.write(csv_content)
                    23
                    24        dynamodb = boto3.resource('dynamodb')
                    25        table = dynamodb.Table(DYNAMODB_TABLE_NAME)
                    26
                    27        with open(file_path, 'r') as file:
                    28            csv_reader = csv.reader(file)
                    29            header = next(csv_reader, None)
                    30            for row in csv_reader:
                    31                row = [None if value == "N/A" else value for value in row]
                    32                item = {header[i]: row[i] for i in range(len(header))}
```

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viveksprac1 - Lambda   ×   Items | Amazon Dynamo ×   viveksprac1exam - S3 bu ×   DataScienceIntern-2024 ×   +

us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/viveksprac1?tab=code   Paused

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+ Add trigger

Code   Test   Monitor   Configuration   Aliases   Versions

Code source Info

Upload from ▼

File Edit Find View Go Tools Window   **Test** ▼   Deploy

Go to Anything (Ctrl-P)

lambda_function ×   Environment Vari ×   Execution result: ×

Environment

▼ viveksprac1
   lambda_function.py

▼ Execution results   Status: Succeeded | Max memory used: 86 MB | Time: 1922.04 ms

Test Event Name
mytest

Response
```
{
  "statusCode": 200,
  "body": "\"Data successfully loaded into DynamoDB\""
}
```

Function Logs
START RequestId: 32404666-76a6-4a9b-966f-d0500cdd60cf Version: $LATEST
{'Records': [{'eventVersion': '2.0', 'eventSource': 'aws:s3', 'awsRegion': 'us-east-1', 'eventTime': '1970-01-01T00:00:00.000Z', 'eventName': 'ObjectCreated:Put', 'userIdentity': {'principalId': 'EXAMPLE'}, 'requestParameters':
END RequestId: 32404666-76a6-4a9b-966f-d0500cdd60cf
REPORT RequestId: 32404666-76a6-4a9b-966f-d0500cdd60cf Duration: 1922.04 ms   Billed Duration: 1923 ms   Memory Size: 128 MB Max Memory Used: 86 MB Init Duration: 487.56 ms

Request ID
32404666-76a6-4a9b-966f-d0500cdd60cf

Code properties Info

Package size	SHA256 hash	Last modified
685.0 byte	YKdkasG5YMoJDpWtr1B6+/NS1gOKJKSHRvhVdmYPQSU=	March 9, 2024 at 02:07 PM GMT+5:30