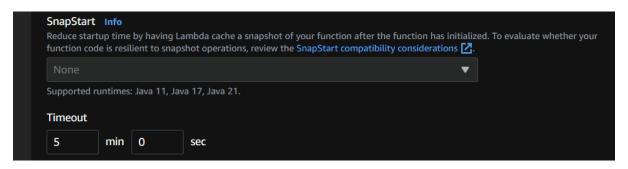
## **POC FOR ASSIGNMENT-6**

LINK - <a href="https://ap-south-2.console.aws.amazon.com/lambda/home?region=ap-south-2#/functions/MayankS3Lambda?tab=code">https://ap-south-2.console.aws.amazon.com/lambda/home?region=ap-south-2#/functions/MayankS3Lambda?tab=code</a>

```
Code ->
import boto3
def lambda_handler(event, context):
  # Specific source bucket name and Destination Bucket Name and also specific s3 region
  source bucket = 'src-s3lambda'
  destination bucket = 'dest-s3lambda'
  source region = 'us-east-1' #us-east-1 is the bucket region
  # Create an S3 client with the specified region
  s3 = boto3.client('s3', region name=source region)
  # List all objects in the source bucket
  try:
#this response will get the content of all folder where / is used to specific folder name
"folder-name/"
    response = s3.list objects v2(Bucket=source bucket, Prefix=", Delimiter='/')
    objects = response.get('Contents', [])
    for common_prefix in response.get('CommonPrefixes', []):
      prefix = common prefix['Prefix']
#this object will get the individual contents in the folder
      objects.extend(s3.list objects v2(Bucket=source bucket,
Prefix=prefix).get('Contents', []))
  except Exception as e:
```

```
print(f"Error listing objects in {source bucket}: {e}")
    raise # Re-raise the exception to propagate it to CloudWatch Logs
  # Iterate over each object and copy it to the destination bucket
  for obj in objects:
    key = obj['Key']
    copy_source = {'Bucket': source_bucket, 'Key': key}
    destination key = key # Optionally, you can modify this to place objects in a specific
folder
    destination = {'Bucket': destination_bucket, 'Key': destination_key}
#copy the all content from source to destination bucket
    try:
      s3.copy_object(CopySource=copy_source, Bucket=destination['Bucket'],
Key=destination['Key'])
      print(f"Successfully transferred {key} from {source_bucket} to {destination_bucket}")
    except Exception as e:
      print(f"Error transferring {key}: {e}")
  return {
    'statusCode': 200,
    'body': 'Transfer completed successfully'
  }
```

If the code gives timeout increase the time in configuration of lambda function



## Screenshot ->

- After coding click on deploy and test the code.

## Output

```
Test Event Name
(unsaved) test event

Response
{
    "statusCode": 200,
    "body": "Transfer completed successfully"
}

Function Logs

START RequestId: 5Abf719f-1504-4406-a4da-3468f4d1f082 Version: $LATEST
Successfully transferred Aman/ from src-s3lambda to dest-s3lambda
Successfully transferred Aman/example.txt.txt from src-s3lambda to dest-s3lambda
Successfully transferred Divita/ from src-s3lambda to dest-s3lambda
Successfully transferred Divita/ from src-s3lambda to dest-s3lambda
Successfully transferred Divita/33712 Divita Miglani 1.docx from src-s3lambda to dest-s3lambda
Successfully transferred Divita/with region.txt from src-s3lambda to dest-s3lambda
Successfully transferred Kirti/ from src-s3lambda to dest-s3lambda
Successfully transferred Kirti/ from src-s3lambda to dest-s3lambda
Successfully transferred Mayank/ from src-s3lambda to dest-s3lambda
Successfully transferred Mayank/ from src-s3lambda to dest-s3lambda
Successfully transferred Mayank/ from src-s3lambda to dest-s3lambda
Successfully transferred Nikihi/ from src-s3lambda to dest-s3lambda
Successfully transferred Silvia/ Silvia (transferred Silvia) from src-s3lambda to dest-s3lambda
Successfully transferred Silvia/ from src-s3lambda to dest-s3lambda
Successfully transferred Sakshi/ from src-s3lambda to dest-s3lambda
Successfully transferred daskshi/ from src-s3lambda to dest-s3lambda
Successfully transferred daskshi/ from src-s3lambda to dest-s3lambda
Successfully transferred a6akshi/ from src-s3lambda to des
```