

# Experiment : 7

Reg No- 079

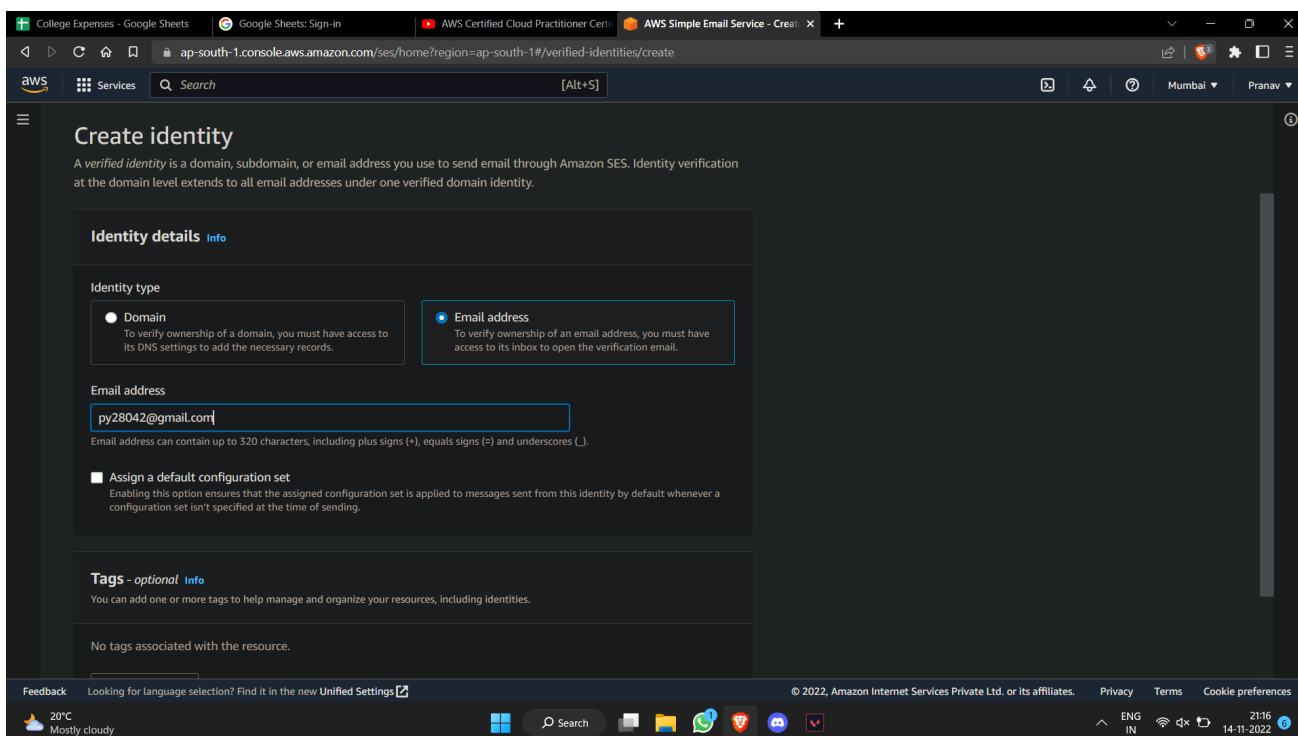
**Title :** Creating a lambda function in AWS to email daily reports  
**Aim :** Automate Sending Emails at a Specific Time with AWS Lambda, CloudWatch and SES

**Pre-requisites :** AWS Console, Amazon SES, Amazon Lambda, Amazon CloudWatch.

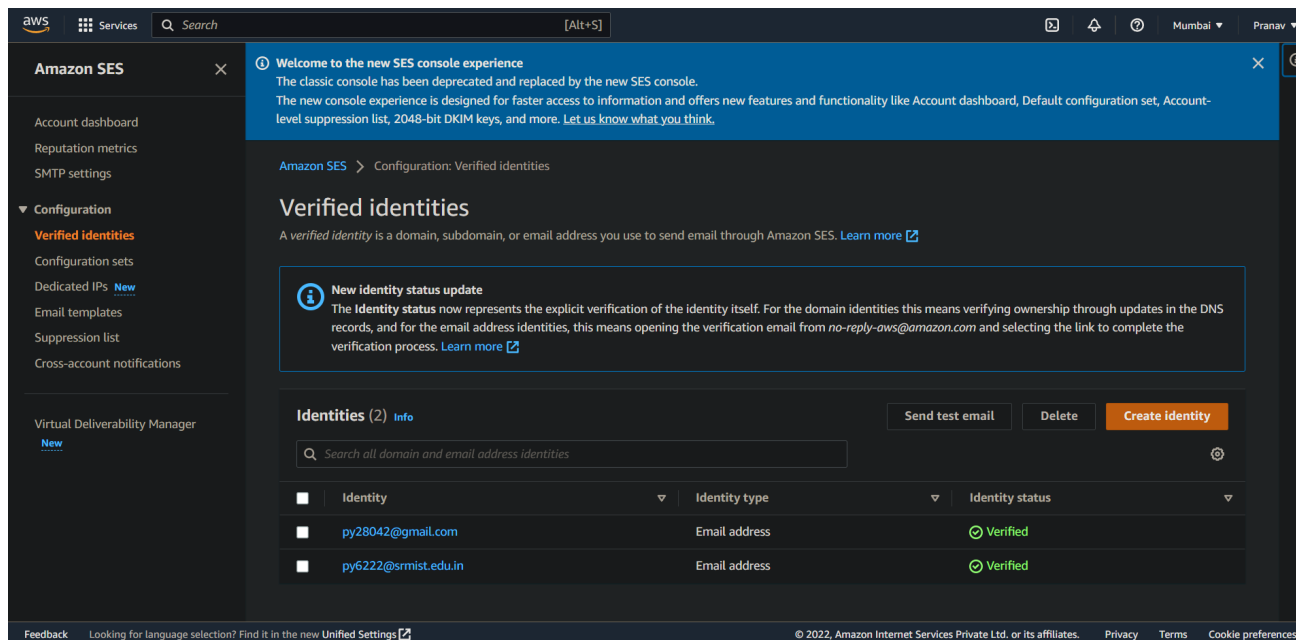
**Procedure :** We are going to automate sending email to a person or a group of people. AWS Cloudwatch is used to setup a schedule to trigger AWS Lambda function and then it's going to use AWS SES (Simple Email Service) to send out emails to people.

Steps:

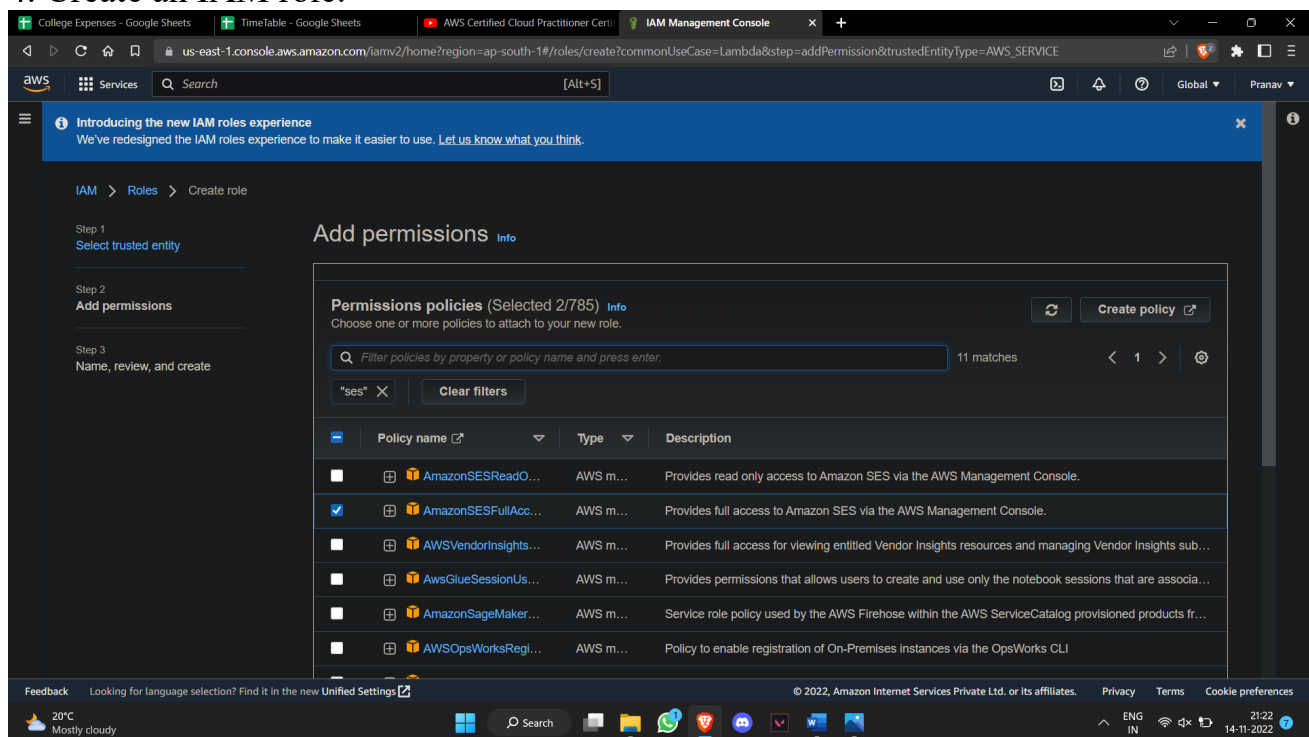
1. Go to AWS SES (Simple email service), click on “Create Identity”. Use email address as a type and type the email address.



2. Verify the email address that received an email from aws to tell you to verify that.

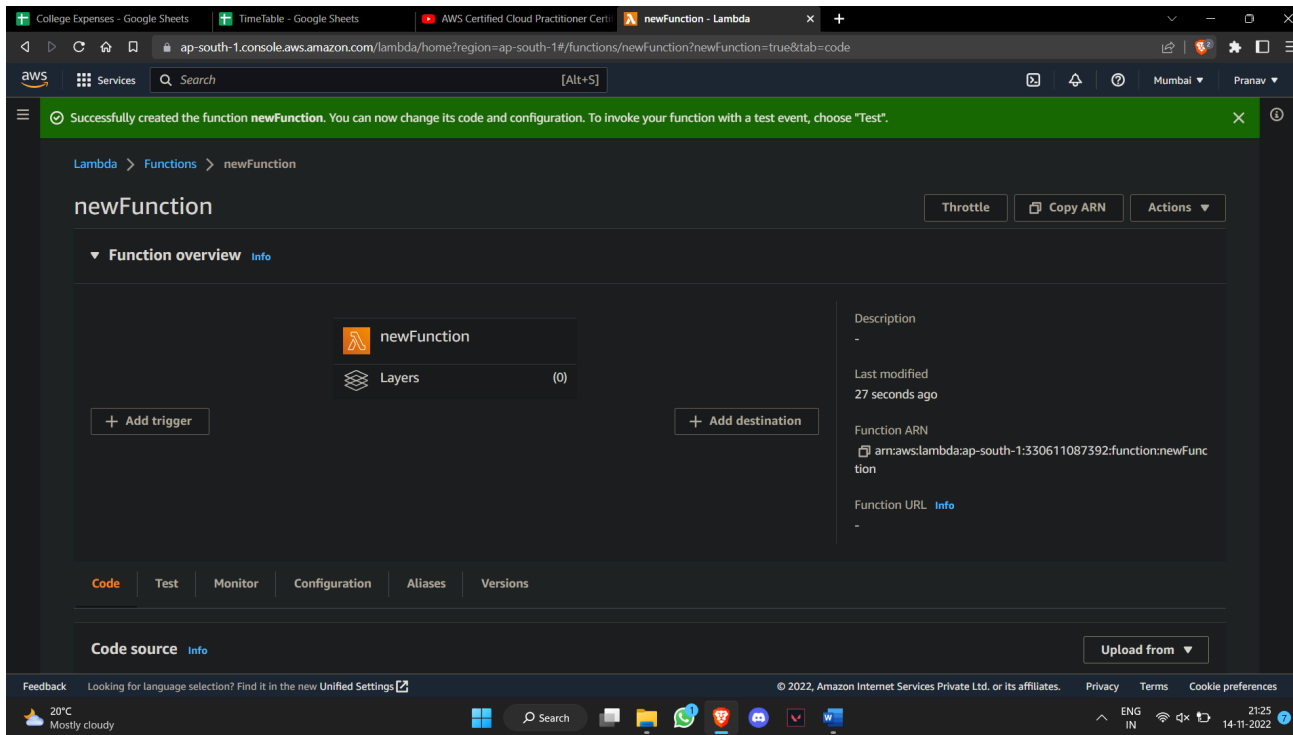


3. Create two identities (email address).  
One for sending emails and another for receiving.
4. Create an IAM role.



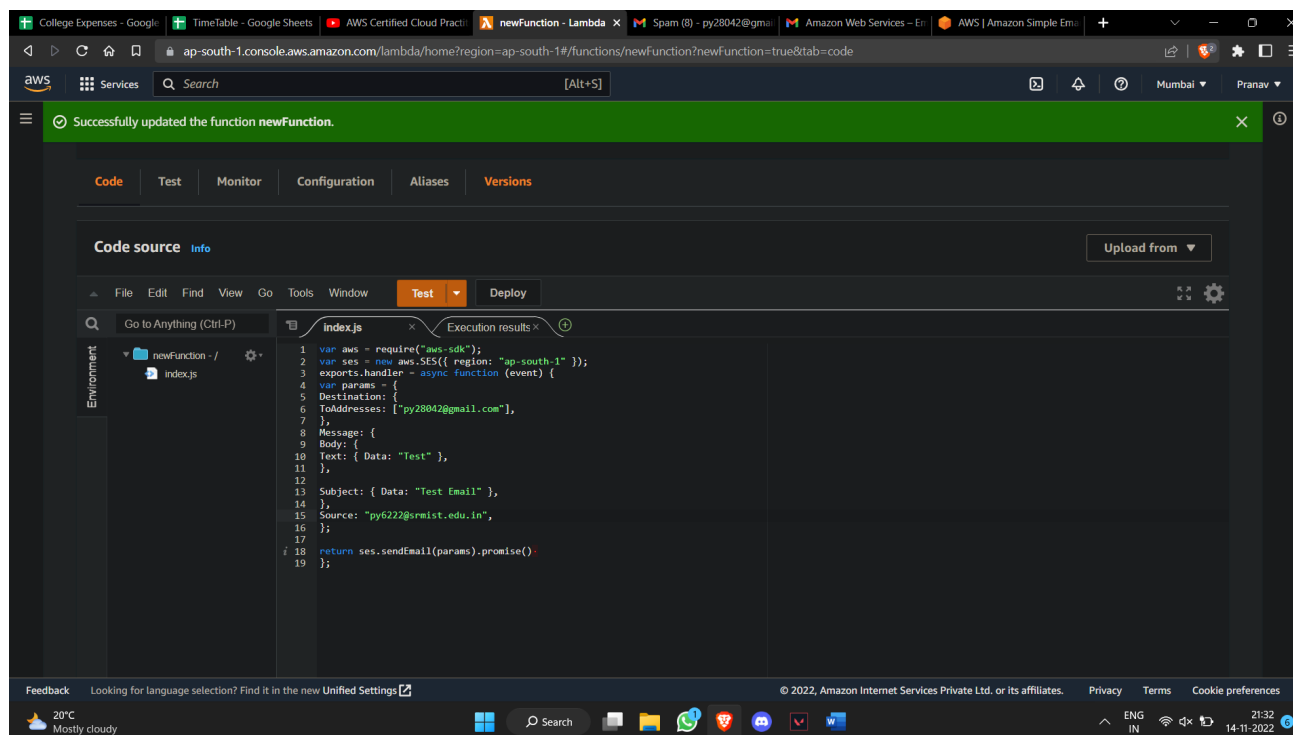
Give Use case as lambda and give full access to cloudwatch, SES.

5. Go to Lambda Service, create a lambda function.  
Give name, runtime as NodeJS, execution role as created IAM role



previously.

## 6. Use this template for the code:



```
var aws = require("aws-sdk");
var ses = new aws.SES({ region: "us-west-2" });
exports.handler = async function (event) {
var params = {
```

```

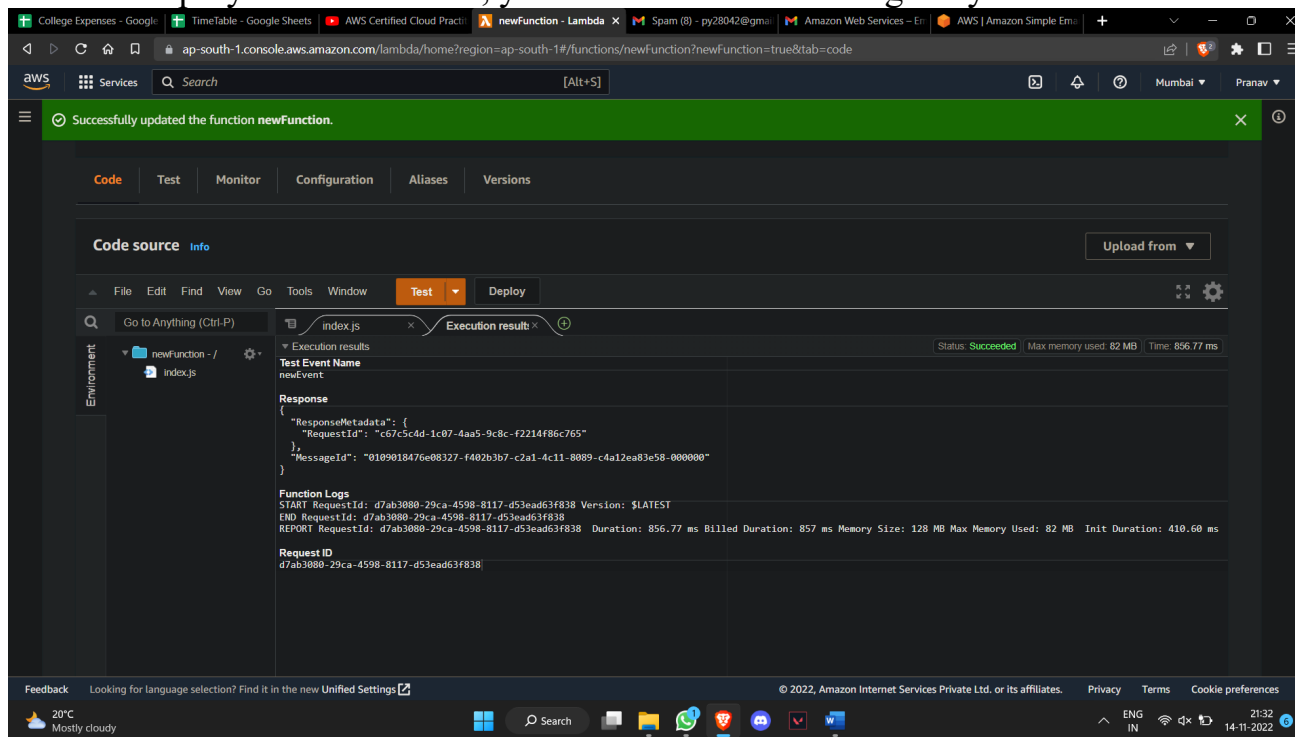
Destination: {
  ToAddresses: ["RecipientEmailAddress"],
},
Message: {
  Body: {
    Text: { Data: "Test" },
  },

  Subject: { Data: "Test Email" },
},
Source: "SourceEmailAddress",
};

return ses.sendEmail(params).promise()
};

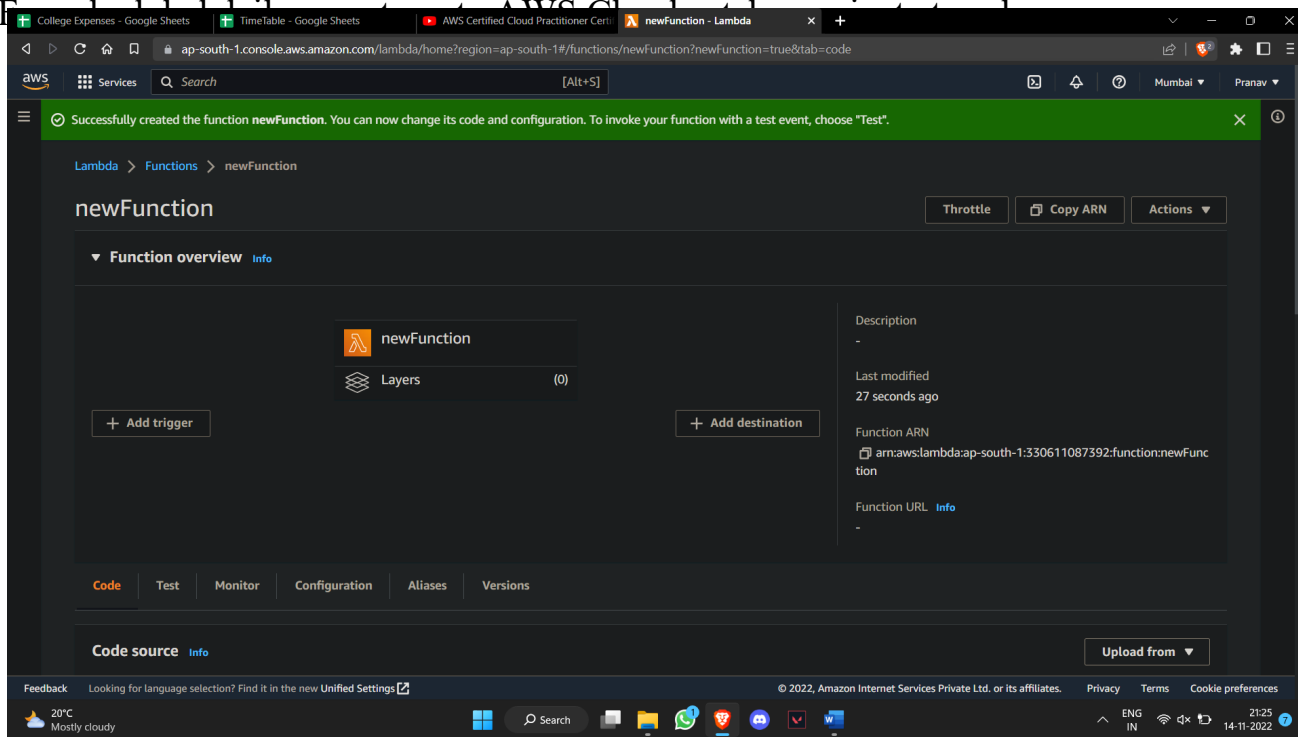
```

7. Click on Deploy and then TEST, you will receive the message in your

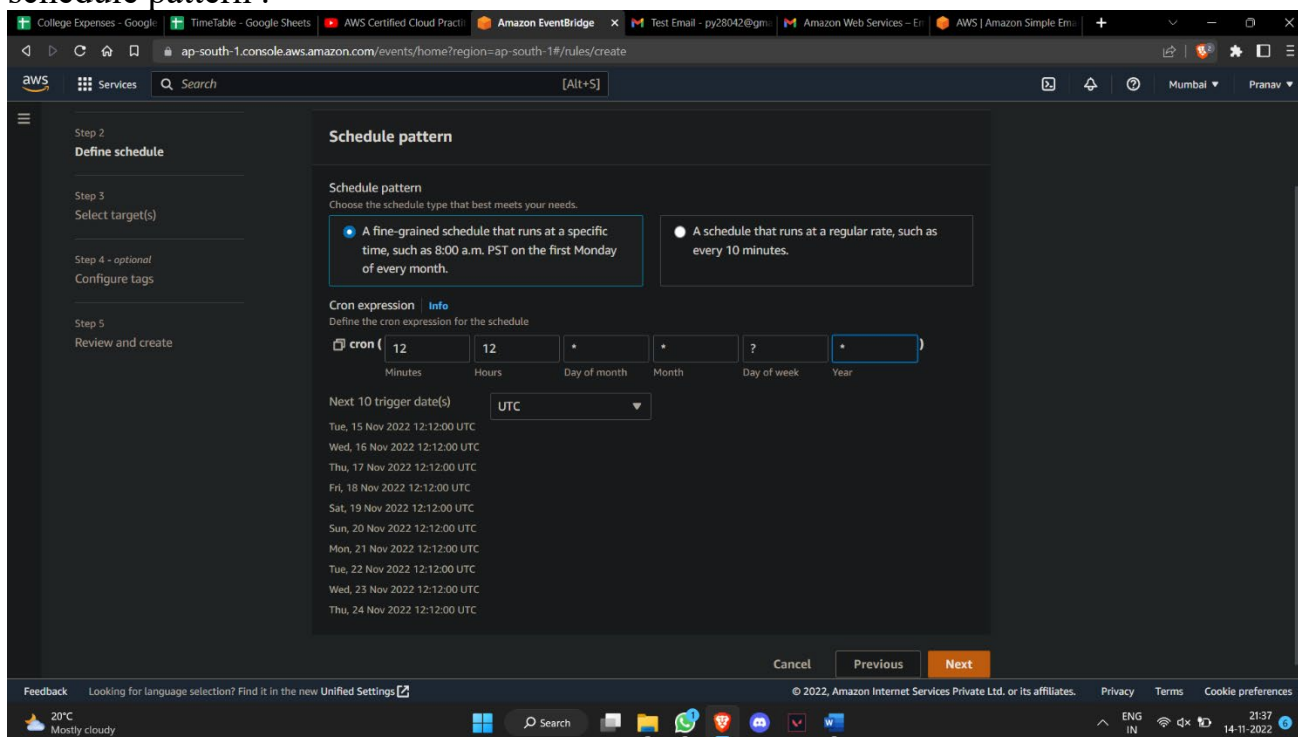


mentioned emails.

8.

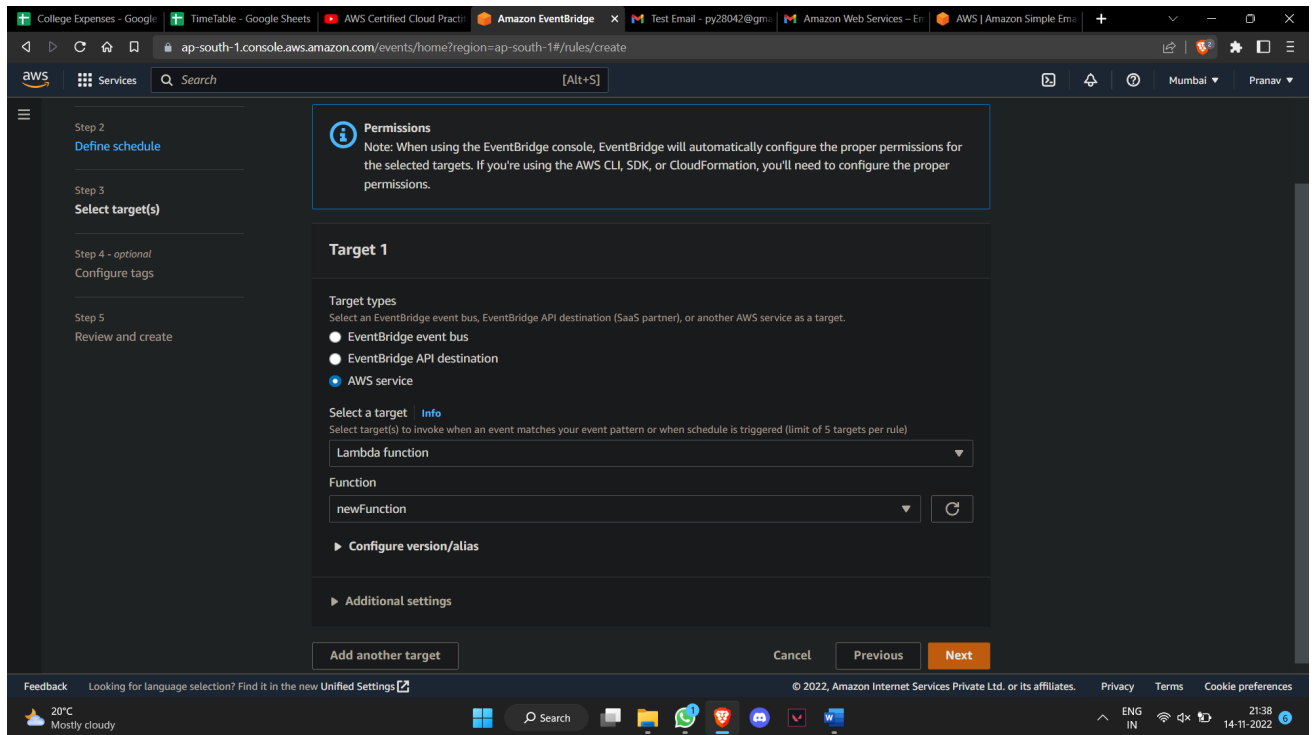


9. Create rule- give name, rule type- schedule, use cron expression for schedule pattern .

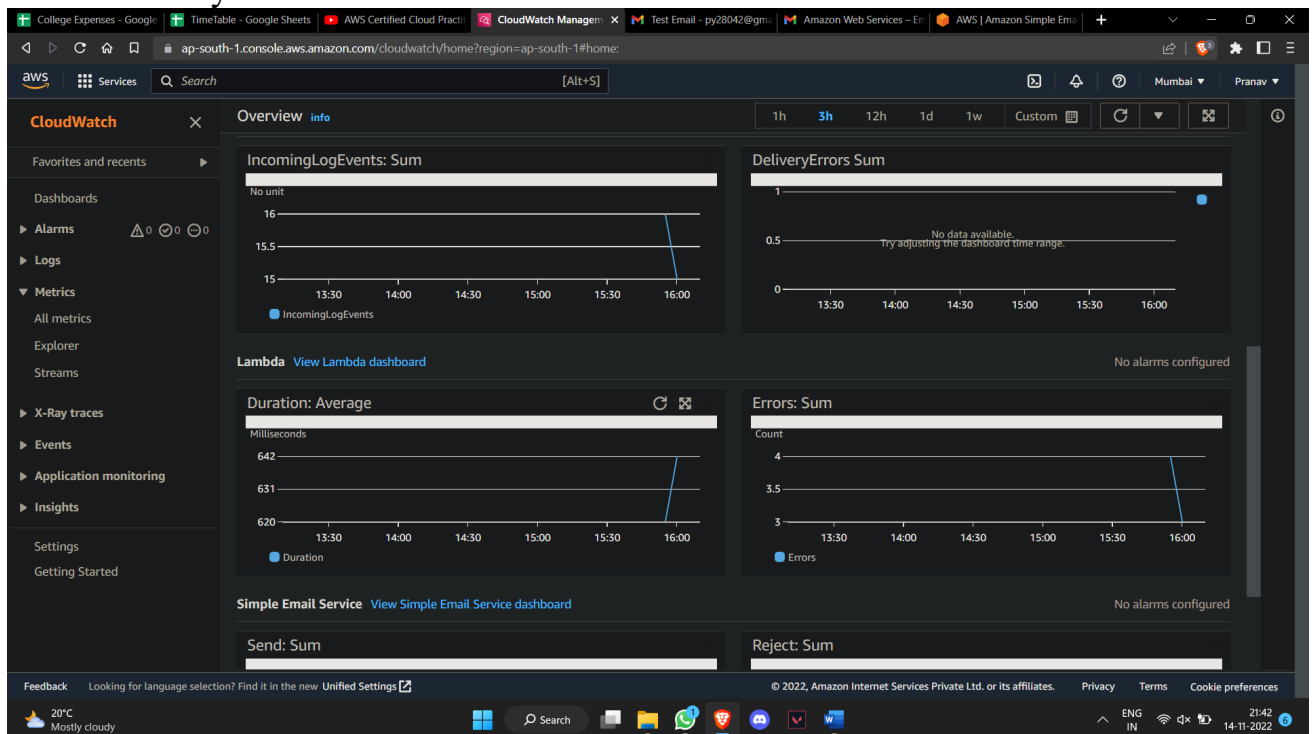


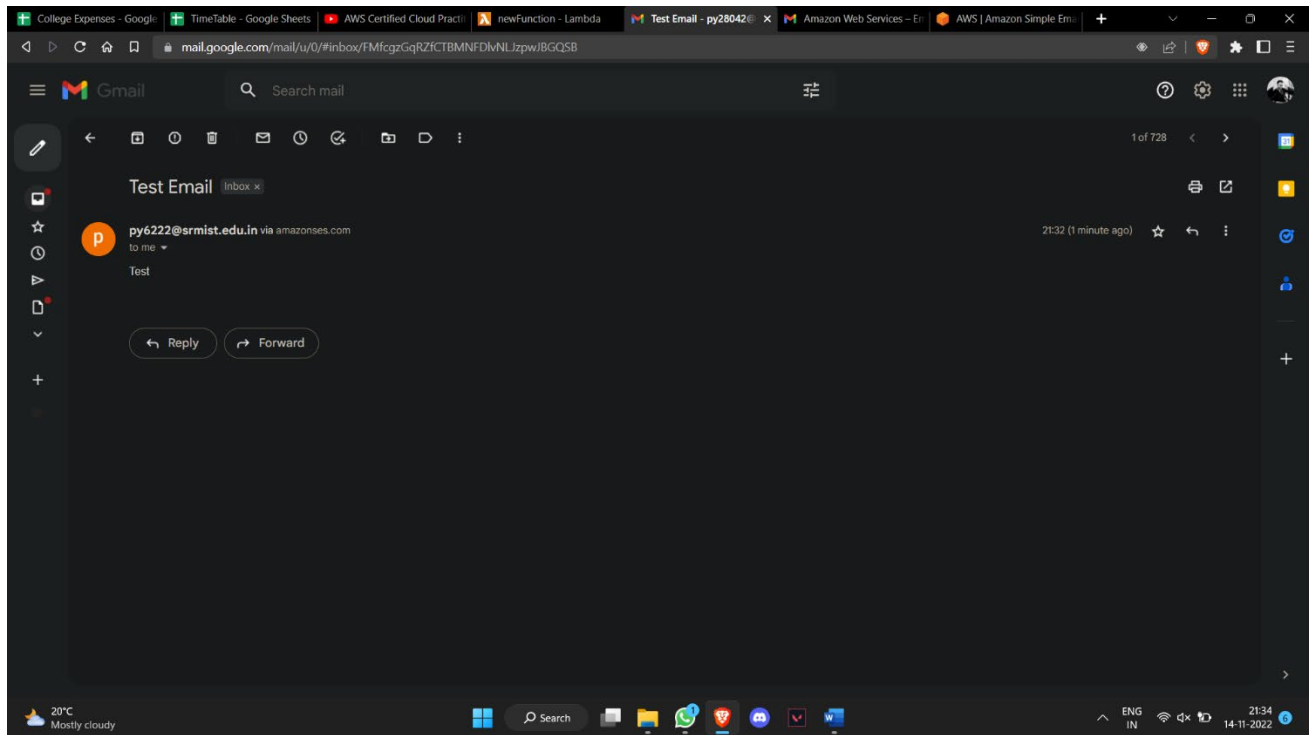
For e.g. : 12 12 \* \* ? \*

10. Select Targets as lambda function, and use the above defined function.



11. Go to monitoring in Lambda service, click on View logs in cloudWatch and check your mail inbox .





## Result:

Hence, the lambda function is created and also implemented using SES, CloudWatch to schedule daily reports.