

Assignment No-3

Creating and application in salesforce.com using APEX programming

problem Definition: Creating an Application in Salesforce.com using Apex

- **Problem Definition:** Creating an Application in Salesforce.com using Apex programming Language.

- **Objective:** To create an application on Salesforce Lightning platform.

- **Software / Hardware Requirements:** OS - Windows / Ubuntu, Google Chrome.

- **Theory:**

1. Salesforce:

Salesforce is a cloud computing service as a software (SaaS) company that specializes in customer relationship management (CRM). Salesforce's services allow businesses to use cloud technology to better connect with customers, partners and potential customers. The

software has become the number one for customer success and helps businesses track customer activity, market to customers and many more services.

2. Salesforce Lightning:

Lightning (Salesforce Lightning) is a component-based framework for app development from Salesforce.com that is designed to simplify processes for business users, who typically do not have programming experience.

Lightning comprises the collection of tools and technologies behind a significant upgrade to the Salesforce1 Platform (now known as App Cloud), the company's mobile app development platform.

Lightning features:

- Experience, a graphical user interface (GUI) that is optimized for speed.
- Lightning App Builder, which provides drag and drop capacities to facilitate app creation and customization.

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- Lightning Component Framework, which includes tools and extensions that enable the development of reusable components and standalone apps and customization of the Salesforce1 Mobile App.
- AppExchange for Components, which makes over 50 partner components available in the App Builder.
- Design System, which offers style guides and user experience (UX) best practices for app development.
- Lightning Connect, an integration tool that makes it easier for Force.com apps to consume data from any external source that conforms to the OData specification.

3. Salesforce started as a cloud based solution for CRM. CRM stands for Customer Relationship Management. It involves managing all aspects of relationship between an organization and its customers. For example, the contact details of the customer, the deals that are in progress or already completed the support requests from a customer or a new lead from a new customer.

Following are the different features of the Salesforce platform –

Contact Management

To view customer contact details, activity history, customer communications, and internal account Discussions, etc. In short, it manages all the data pertaining to the contact with a customer.

Opportunity Management

It provides the details of the stage a deal is in, the products involved in the deal, the quotation for the Deal etc. In short it manages all the data that helps indentifying, progressing and closing a deal.

Sales force Engage this feature is focused on making personalized contact with a customer for various campaigns designed by marketing team. It also provides real-time sales alerts based on the level of engagement with customer.

Sales Collaboration

This feature helps in quickly finding experts who can help in closing a deal based on customer queries and feedback. In short, it helps in bringing in a collaborative effort to engage an entire team in the deal and make the deal happen.

Sales Performance Management

It provides a metric-based goal setting, and also continuous feedback and rewards and recognition for the sales team. This helps in enhancing the performance of the sales team.

Salesforce Mobile App

This is the mobile platform to carry out all the above activities on a mobile platform.

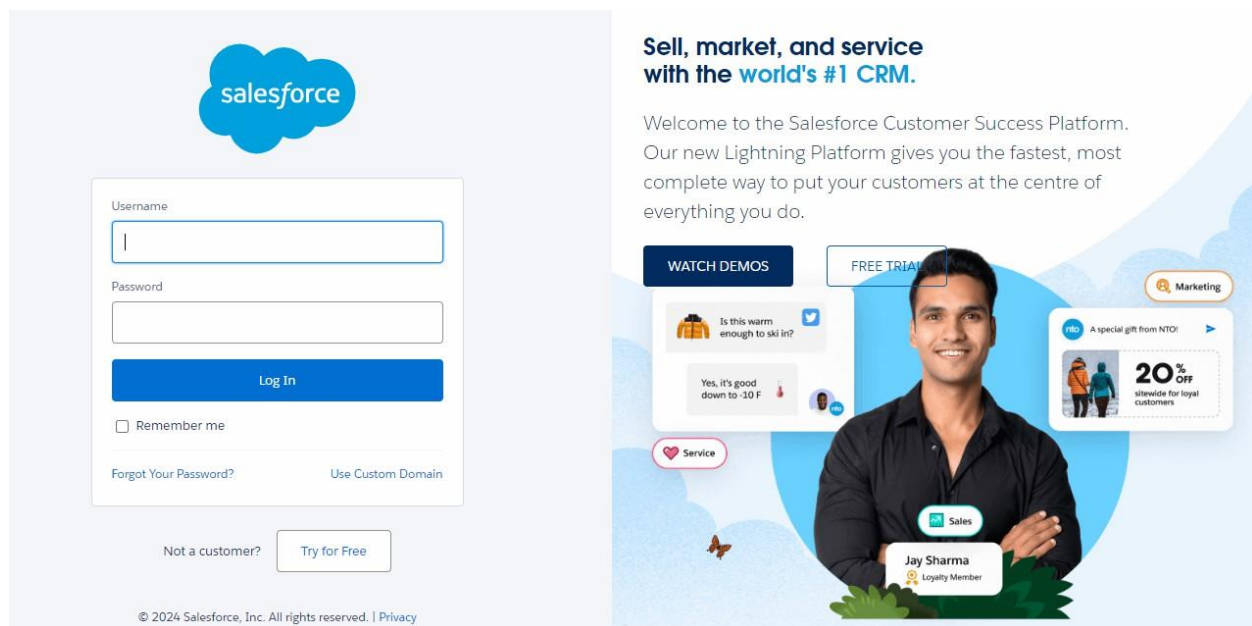
Workflow and Approvals It is a visual design to automate the business processes. The interface provides simple drag and drop options to make this design. It helps in creating flexible approval process with deal discounts and expense management etc.

Email Integration

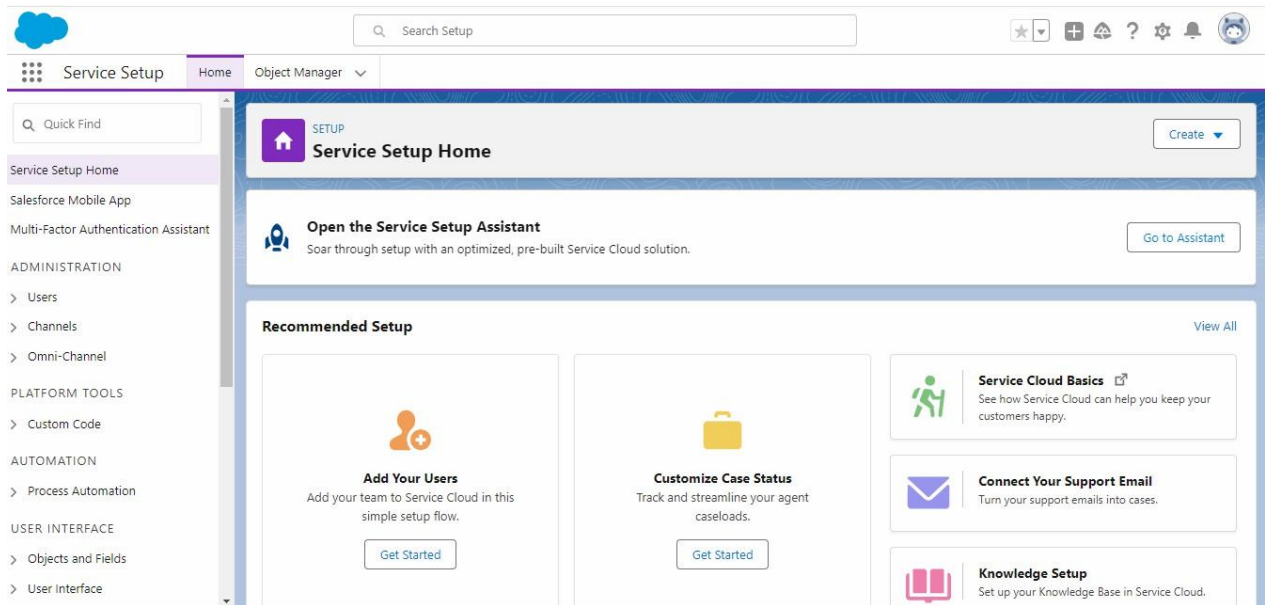
Sales force can integrate to an existing email platform. This helps in providing flexibility to the existing team with no additional learning curve. Files Sync and Share

Steps for execution

Step1-Login into salesforce developer account

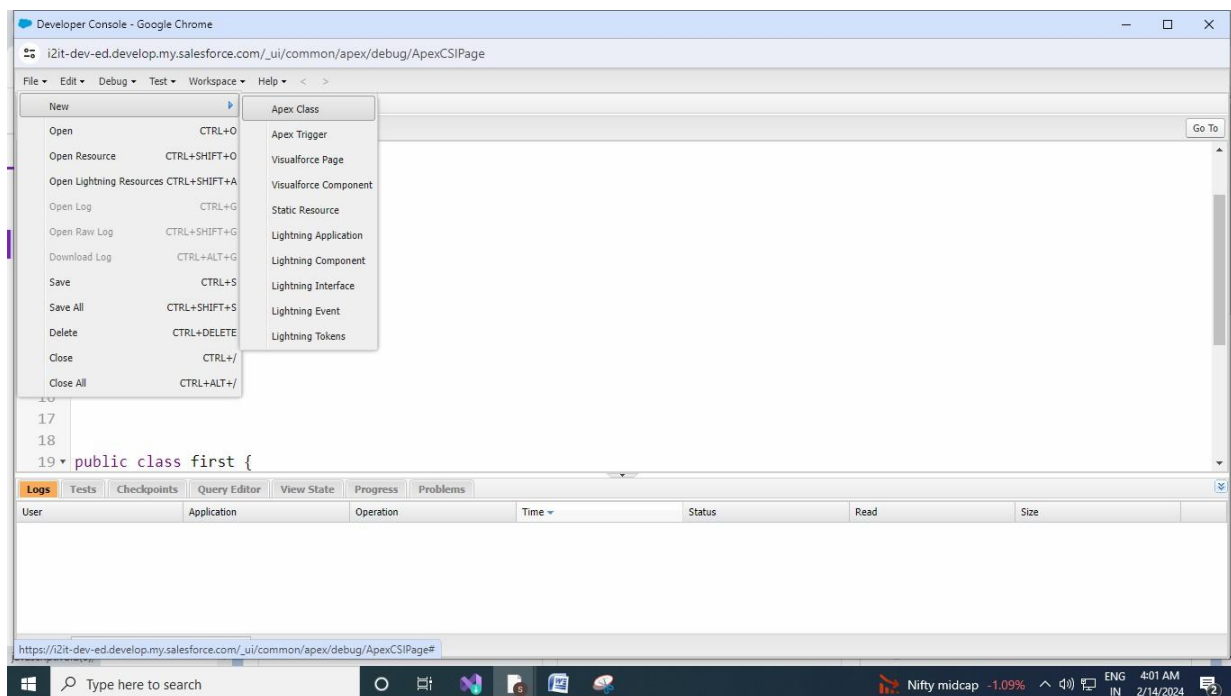


Step 2: Open salesforce lighting platform=> Select Setup=>Developer Console

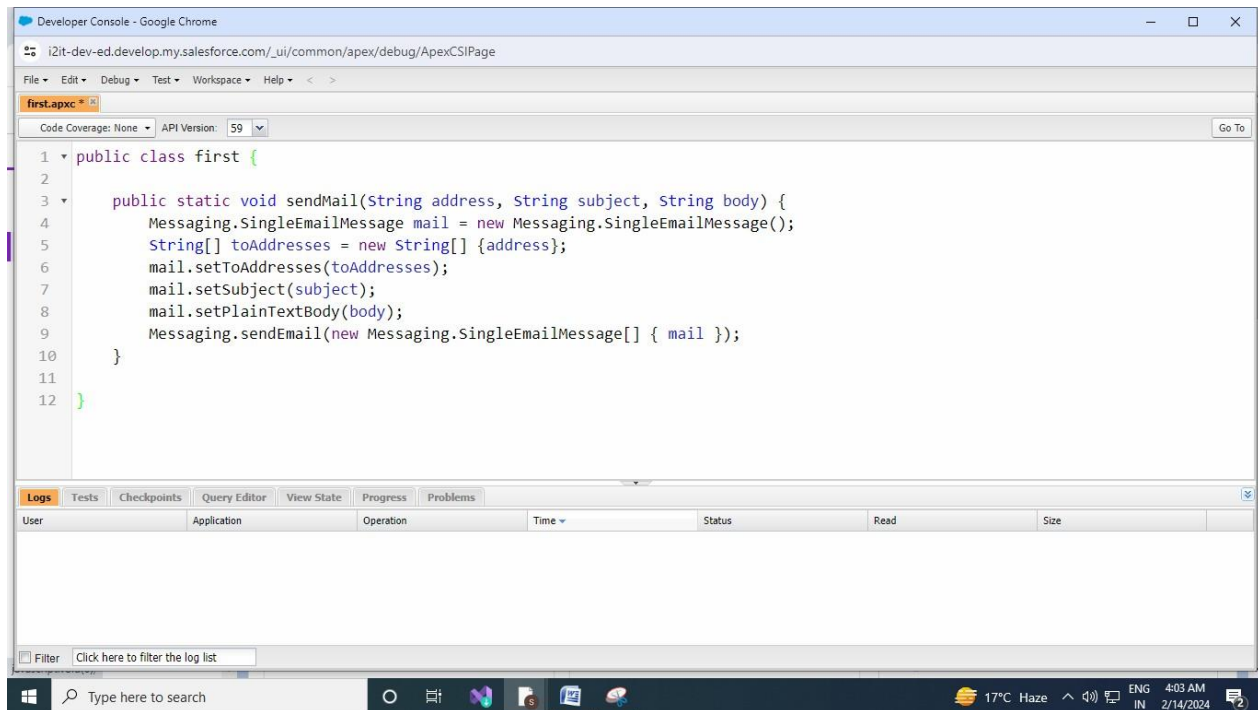


Step3: Now create new apex class

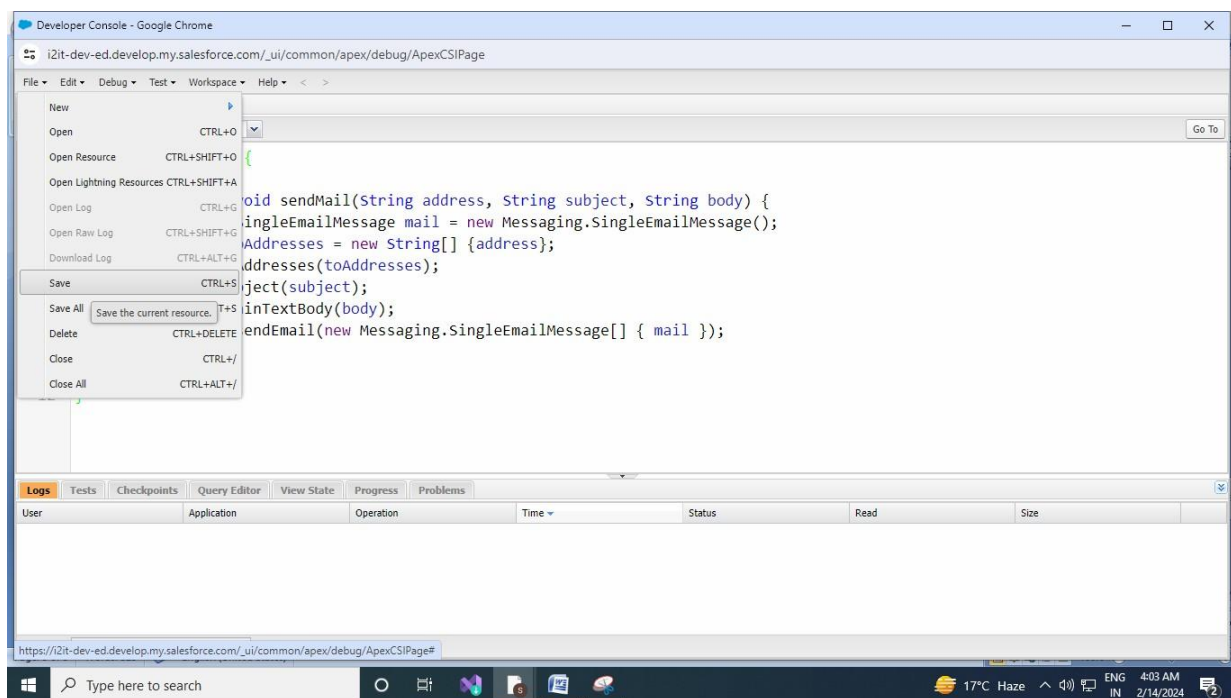
File=>New=>Apex class. Enter the name of class and click OK



Step 4 : write a logic in the new class created using apex programming language



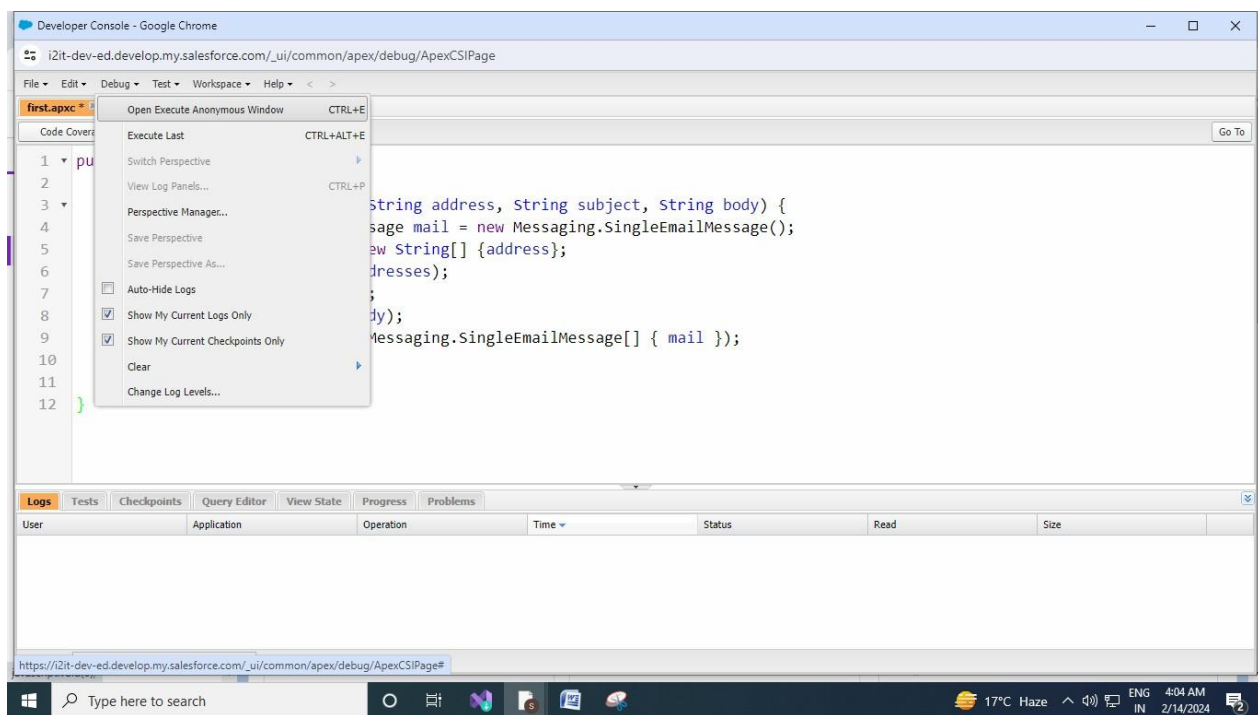
Step 5: Click on save



Write a code in apex class (Above window) public

```
class first {  
  
    public static void sendMail(String address, String subject, String body) {  
        Messaging.SingleEmailMessage mail = new Messaging.SingleEmailMessage();  
        String[] toAddresses = new String[] { address };  
        mail.setToAddresses(toAddresses);  
        mail.setSubject(subject);  
        mail.setPlainTextBody(body);  
        Messaging.sendEmail(new Messaging.SingleEmailMessage[] { mail });  
    }  
  
}
```

Step 6 : On Developer console click on Debug => Open execute anonymous window



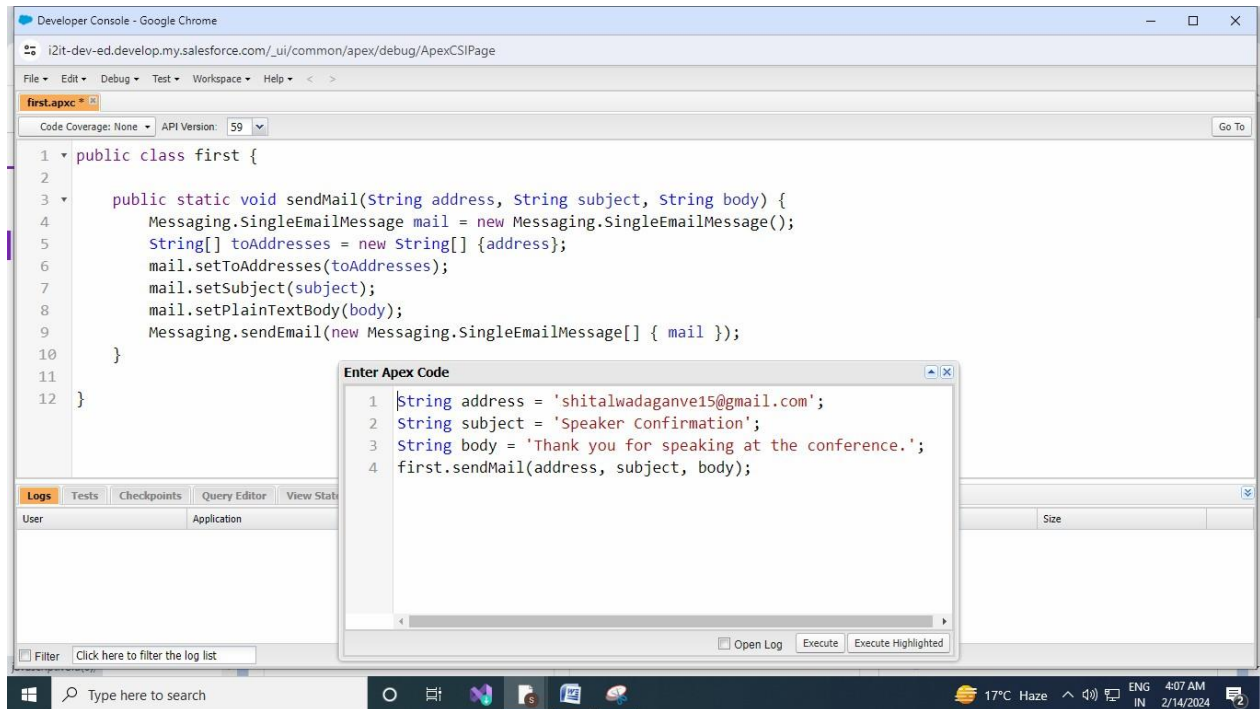
Write this code in developer console anonymous window

```
String address = 'YOUR_EMAIL_ADDRESS';  
String subject = 'Speaker Confirmation';
```

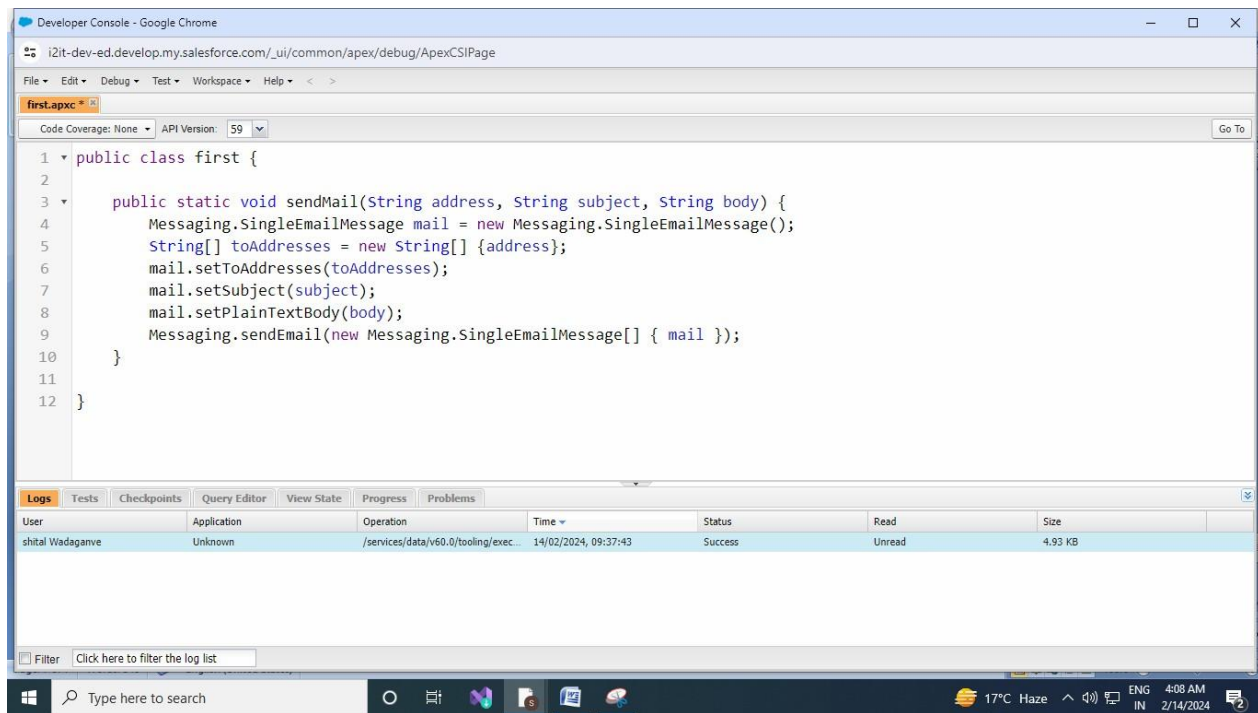


```
String body = 'Thank you for attending conference.'  
EmailManager.sendMail(address, subject, body);
```

Step 7 : Click on execute



Step 8: It will show you success



Step9:Check your Gmail account inbox whether mail received or not

Attach your output here