

Assignment 8

- **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.

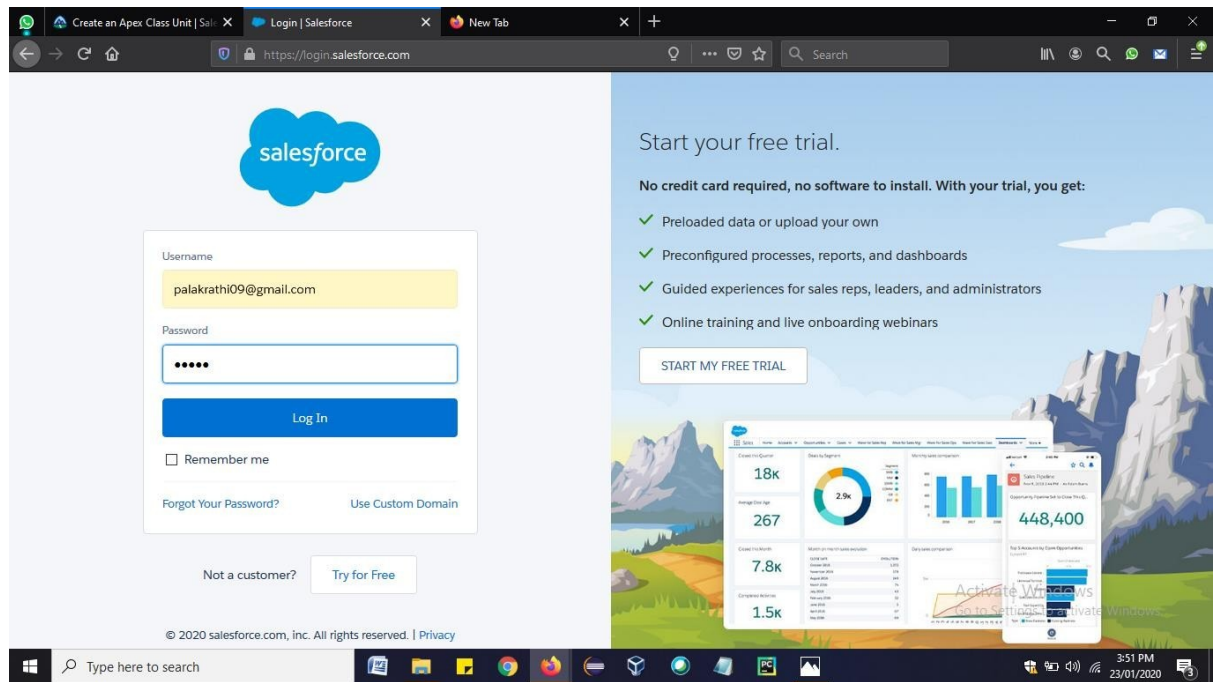
Lightning comprises the collection of tools and technologies behind a significant upgrade to the Salesforce1 Platform (now known as App Cloud), the company's mobile app development platform.

Lightning features:

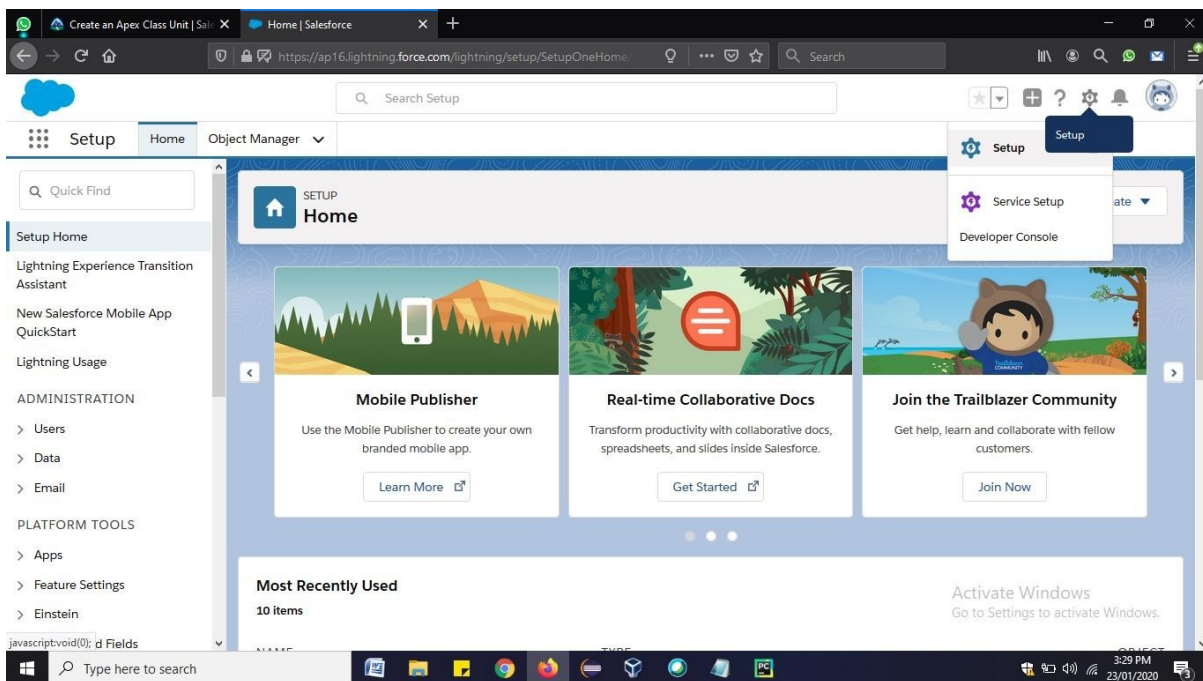
- Experience, a graphical user interface (GUI) that is optimized for speed.
- Lightning App Builder, which provides drag and drop capacities to facilitate app creation and customization.
- Lightning Component Framework, which includes tools and extensions that enable the development of reusable components 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.

Steps of execution:

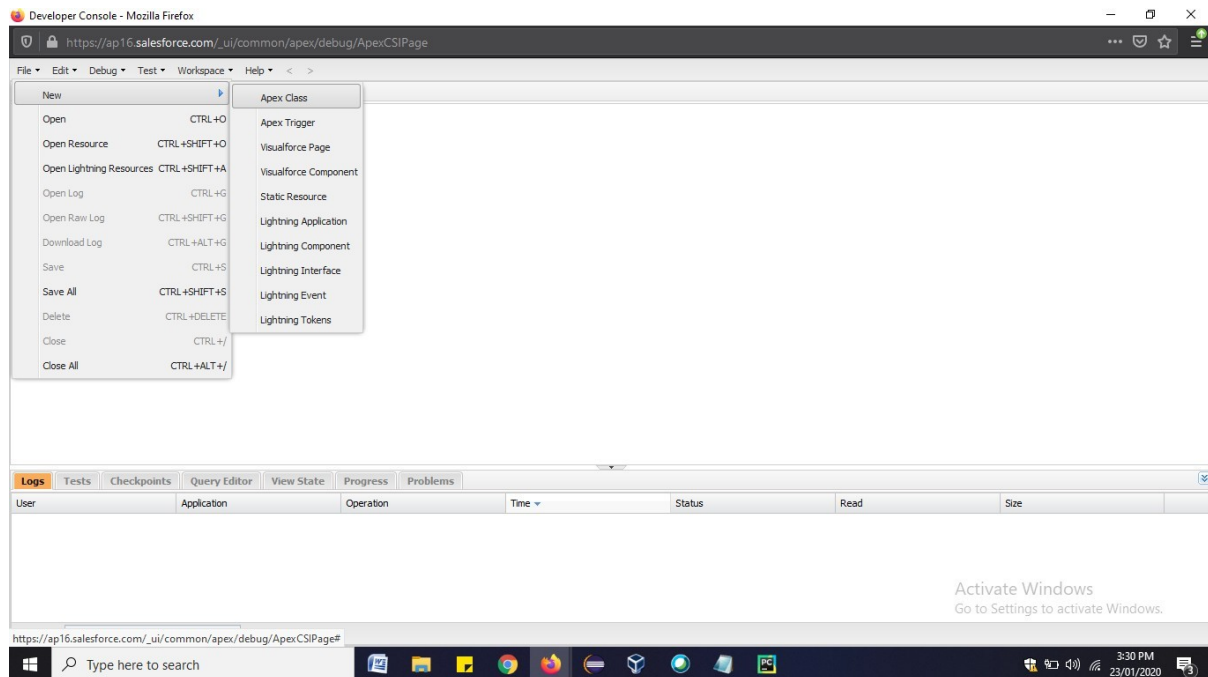
Step 1: Login into Salesforce Developer account.



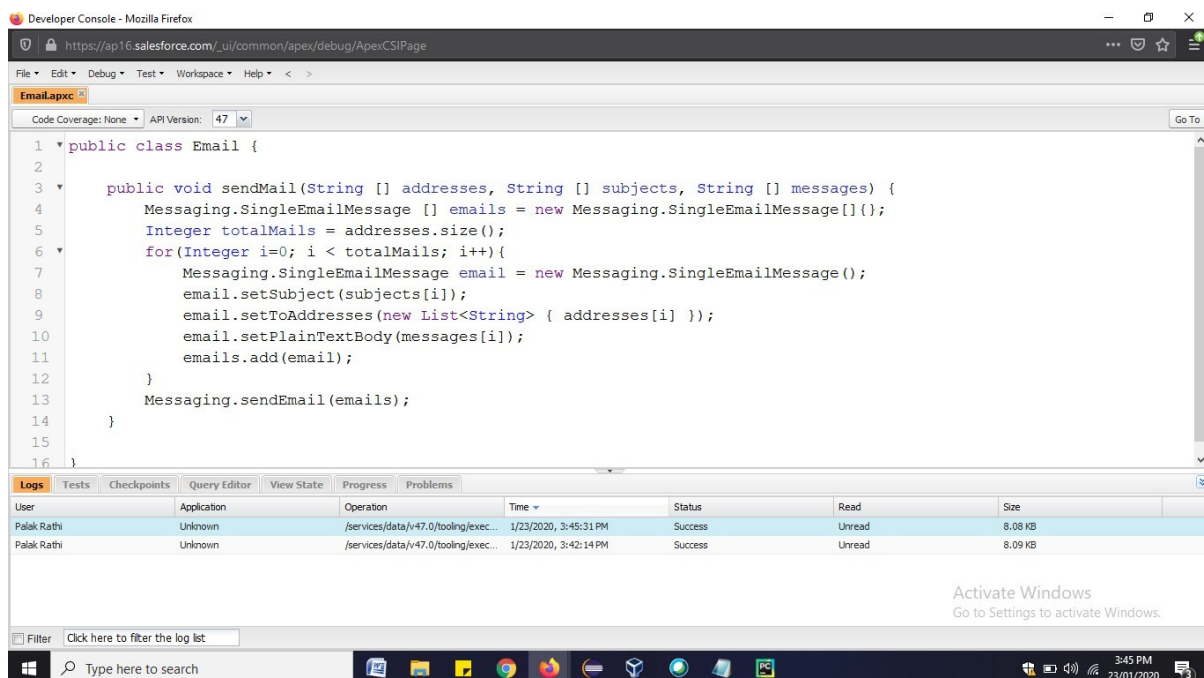
Step 2: Open Salesforce Lightning platform. Select Setup => Developer Console



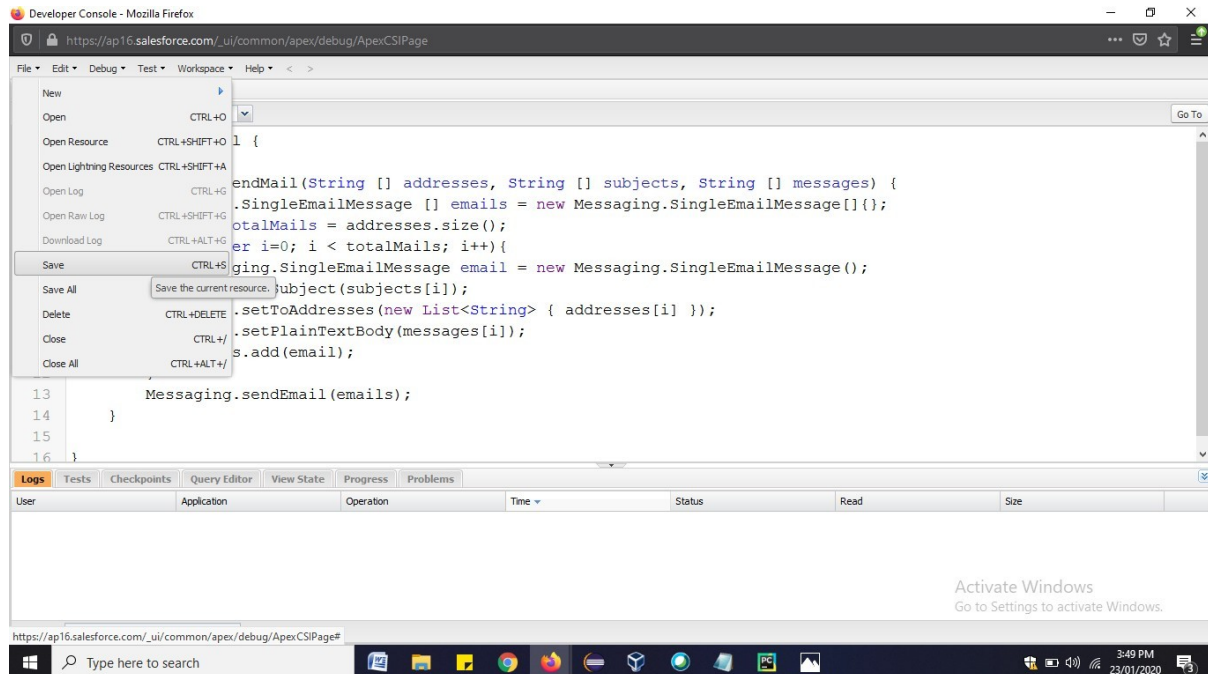
Step 3: Now, create new Apex Class, File => New => Apex Class. Enter the name of class and click OK.



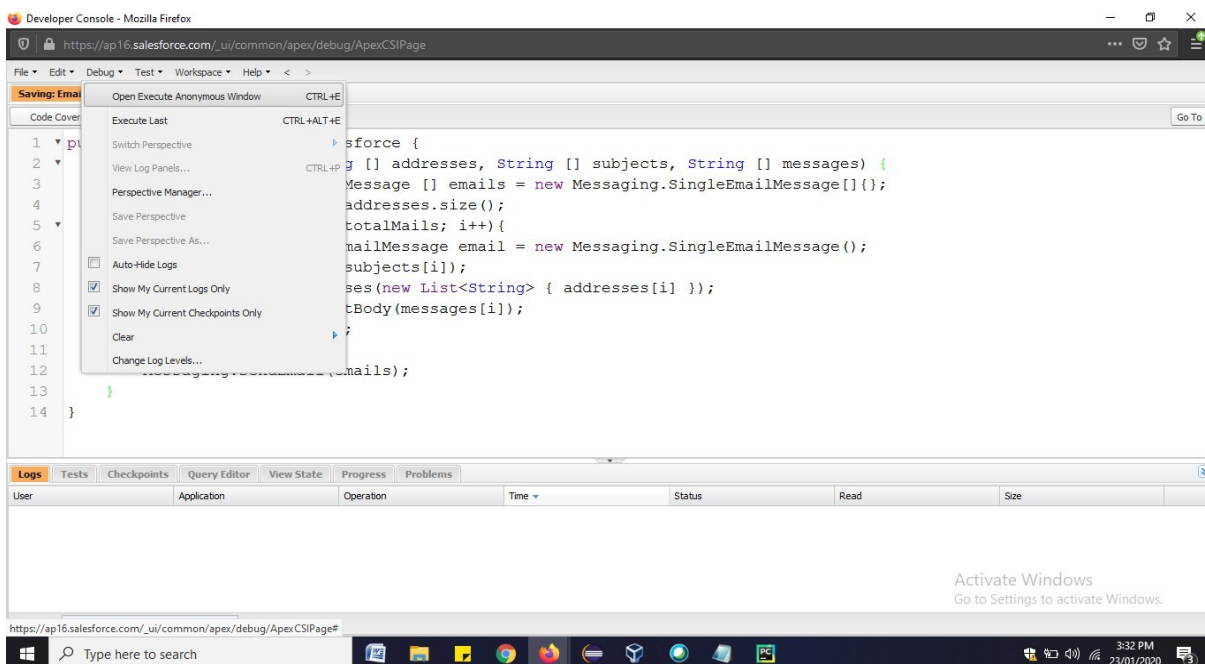
Step 4: Write the logic in the new class created using Apex Programming language.



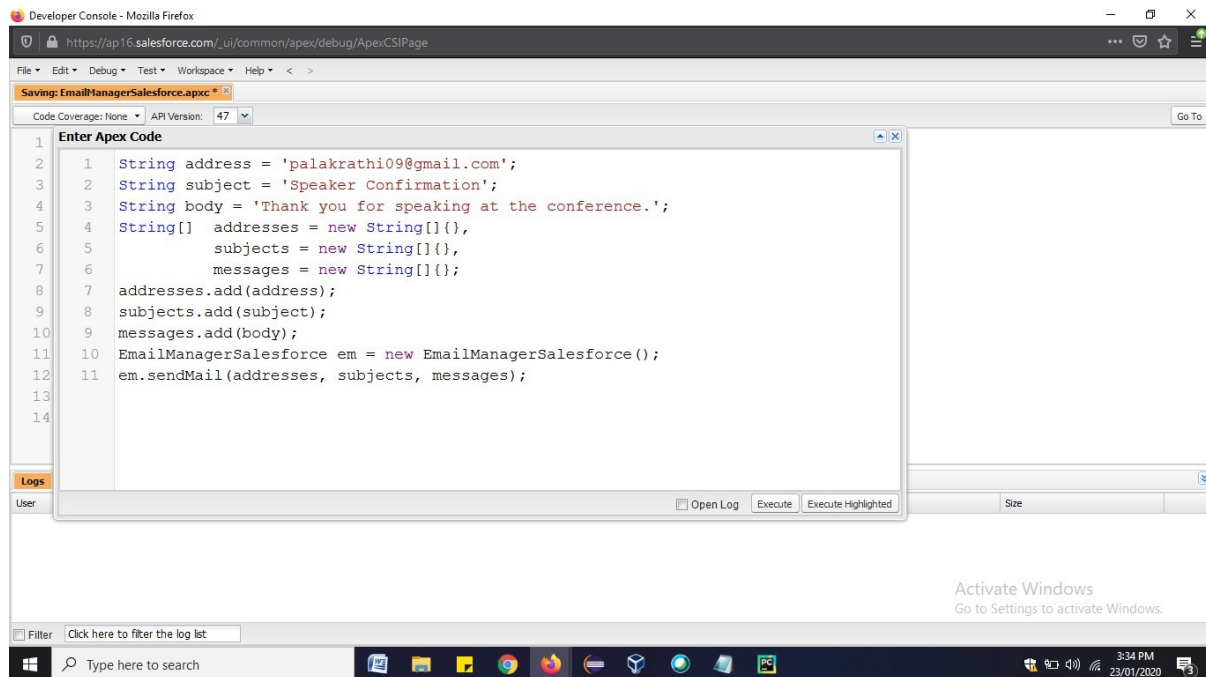
Step 5: Click on Save.



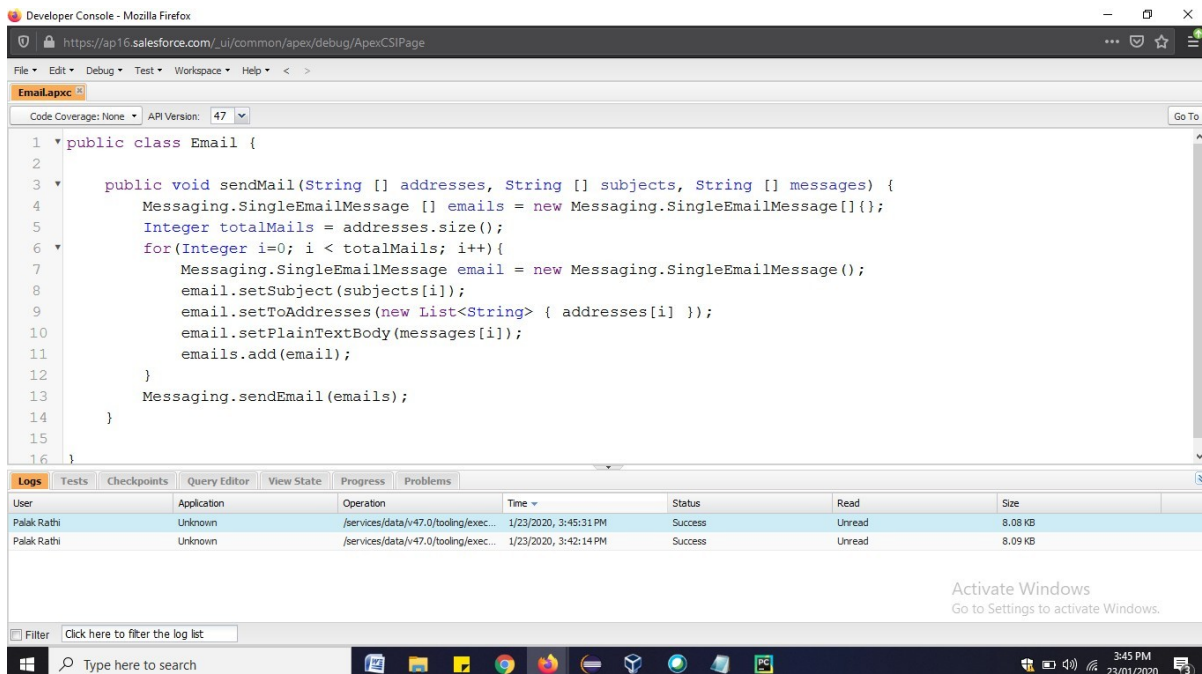
Step 6: On the developer Console, click on Debug => Open Execute Anonymous Window.



Step 7: Type the following code, in the window below. Enter your Email id in the address field.



Step 8: Click on Execute. Check the execution status.



Code:

EmailManager.apxc

```
public with sharing class EmailManager{
    public void sendMail(String [] addresses, String [] subjects, String [] messages) {
        Messaging.SingleEmailMessage [] emails = new Messaging.SingleEmailMessage[]{};
        Integer totalMails = addresses.size();
        for(Integer i=0; i < totalMails; i++){
            Messaging.SingleEmailMessage email = new Messaging.SingleEmailMessage();
            email.setSubject(subjects[i]);
            email.setToAddresses(new List<String> { addresses[i] });
            email.setPlainTextBody(messages[i]);
            emails.add(email);
        }
        Messaging.sendEmail(emails);
    }
}
```

Type the below code in debugger console:

```
String address ='palakrathi09@gmail.com';
String subject = 'Speaker Confirmation';
String body = 'Thank you for speaking at the conference.';
String[] addresses = new String[]{};
subjects = new String[]{};
messages = new String[]{};
;addresses.add(address);
subjects.add(subject);
messages.add(body);
EmailManager em = new EmailManager();
em.sendMail(addresses, subjects, messages);
```

Conclusion: Hence we have created an application using Salesforce lightning platform using Apex programming language.