

Day 1:

Create Your Salesforce Developer Org To Get Started

1. Creating Developer Account

Creating a developer org in salesforce.

Go to developers.salesforce.com/

Click on sign up.

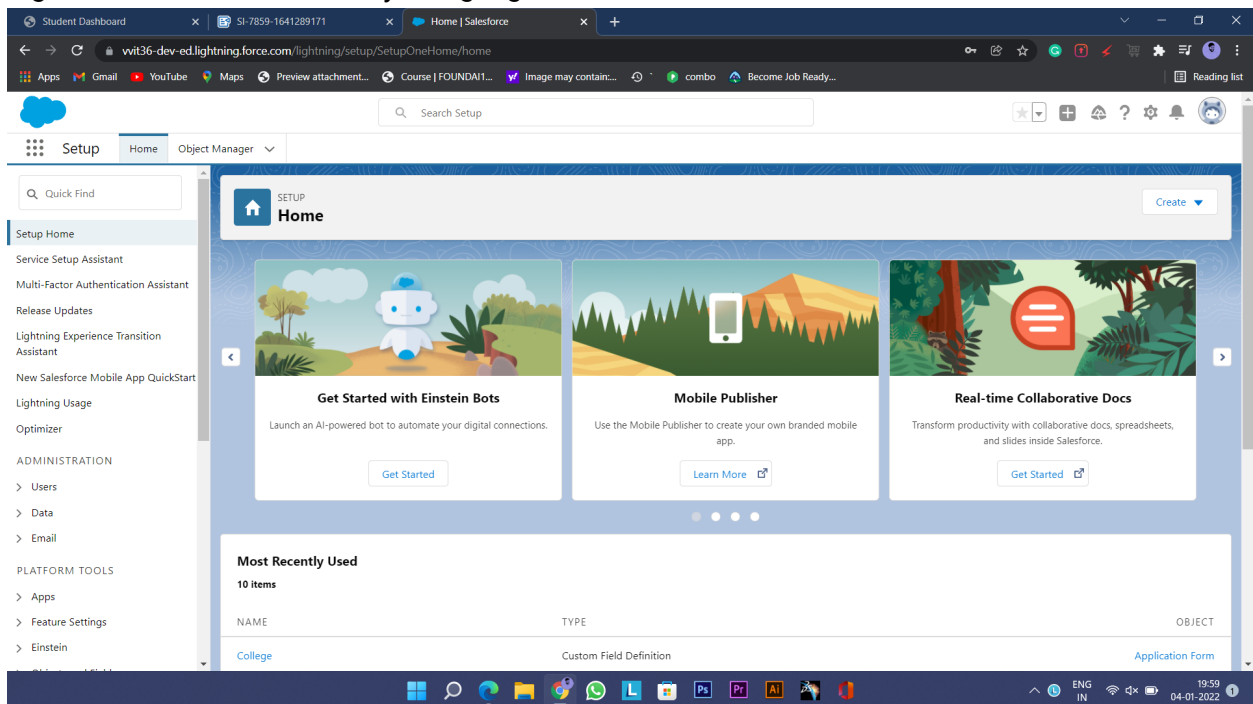
On the sign up form, entering our details

2. Account Activation

Go to the inbox of the email and Click on the verify account to activate my account

3. Login To Your Salesforce Account

login to salesforce account by using login details



DAY 2:

Custom Object Creation

1.Create The Custom Objects For The Application

First we create the College Management Lightning App

And then we create custom objects

College

Application Form

Students.

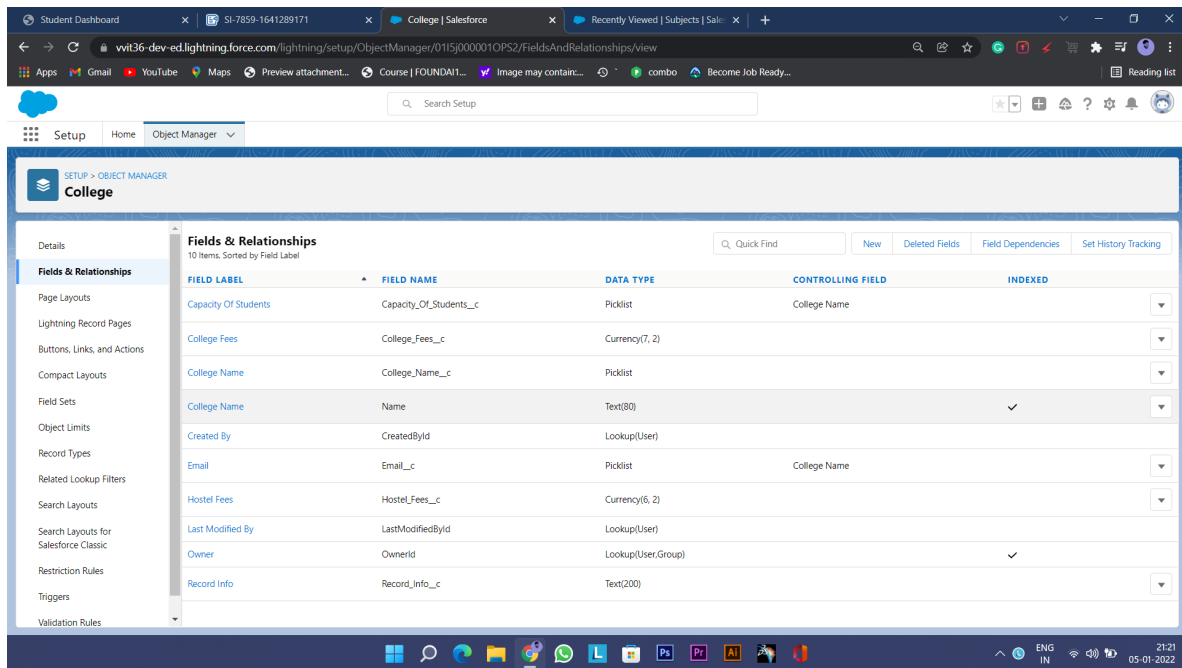
Subjects.

And then we create fields in custom objects according to the requirement

Create Fields On College Object

Create the following fields on the college object.

Field Name	Data Type	Required	Values
Record Info	Text		
College Fees	Currency(7,2)	Yes	
Hostel Fees	Currency(6,2)	Yes	
College Name	Picklist(Refer Business Logic In Milestones)	Yes	
Email	Picklist		blr@mit.co.in hyd@mit.co.in mum@mit.co.in maa@mit.co.in ccu@mit.co.in del@mit.co.in
Capacity Of Students	Picklist		500-1000, 1000-2500, 2500-6000, 6000-10000



Fields On Application Form Object

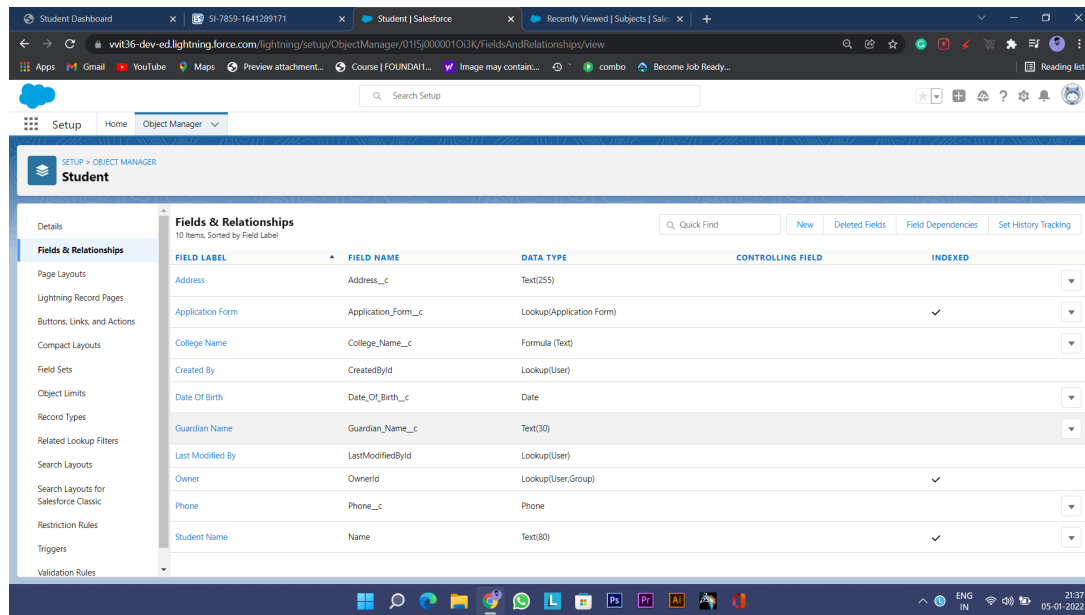
Field Name	Data Type	Required	Values
Application Form ID	Auto number		F-{000000} Starting Number=1
Address	Text(255)	Yes	
College	Master-Detail(College)	Yes	
College Fees	Formula(Currency)		
Hostel Fees	Formula(Currency)		
date of Birth	Date	Yes	
Email	Email(Unique)	Yes	
Guardian Name	Text(30)	Yes	
Looking For Hostel Stay	Checkbox(default=Uncheck)		
Ready To Join	Checkbox(default=Uncheck)		
Student Name	Text(30)	Yes	
Phone	Phone	Yes	

The screenshot shows the Salesforce Lightning Setup interface. The browser tabs include 'Student Dashboard', 'SI-7859-1641289171', 'Application Form | Salesforce', and 'Recently Viewed | Subjects | Sale...'. The address bar shows the URL: `vt36-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000001OhWg/FieldsAndRelationships/view`. The page title is 'Application Form'. The left sidebar shows the navigation menu with 'Fields & Relationships' selected. The main content area displays a table of fields for the 'Application Form' object, sorted by Field Label. The table has columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Address (Text(255)), Application Form ID (Auto Number), Application Form Name (Text(80)), College (Master-Detail(College)), College Fees (Formula (Currency)), Created By (Lookup(User)), date of Birth (Date), Email (Email), Guardian Name (Text(30)), and Last Modified By (Lookup(User)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Address	Address_c	Text(255)		
Application Form ID	Application_Form_ID__c	Auto Number		
Application Form Name	Name	Text(80)		✓
College	College__c	Master-Detail(College)		✓
College Fees	College_Fees__c	Formula (Currency)		
Created By	CreatedById	Lookup(User)		
date of Birth	date_of_Birth__c	Date		
Email	Email__c	Email		
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedById	Lookup(User)		

Fields On Student Object

Field Name	Data Type	Required	Values
Student Name	Text		
Address	Text(255)	Yes	
Application Form	Lookup(Application Form)		
College Name	Formula(Text)		
Date Of Birth	Date	Yes	
Guardian Name	Text(30)	Yes	
Phone	Phone	Yes	



Fields On Subject Object

field Name	Data Type	Required	Values
Subject ID	AutoNumber		S-{000000} Starting Number=1
Paper 1	Picklist(Refer Business Logic Milestone)		
Paper 2	Picklist(Refer Business logic Milestone)		
Student	Lookup(Student)		

The screenshot shows the Salesforce Setup interface for the 'Subjects' object. The 'Fields & Relationships' section is active, displaying a table of fields. The table has columns for FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Created By, Last Modified By, Owner, Paper 1, Paper 2, Student, Subject ID, and Subjects Name.

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User, Group)		✓
Paper 1	Paper_1__c	Picklist		
Paper 2	APER_JAVA_C_C__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		
Subjects Name	Name	Text(30)		✓

These are the Fields created in the custom objects

The screenshot shows the 'New College' form in Salesforce. The form is titled 'New College' and contains several fields for creating a new college record. The 'College Name' field is highlighted with a red asterisk, indicating it is required. The 'Owner' field is set to 'Othuri Sai Nikhil'. The 'Record Info' section includes fields for 'College Fees' and 'Hostel Fees', both marked with red asterisks. The 'Email' field is a dropdown menu with '--None--' selected. The 'College Name' dropdown menu also has '--None--' selected. The 'Capacity Of Students' field is a text input with '--None--' entered. The form has 'Cancel', 'Save & New', and 'Save' buttons at the bottom.

Student Dashboard SI-7859-1641289171 New Application Form | Salesforce

vwit36-dev-ed.lightning.force.com/lightning/o/Application_Form_c/new?count=3&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIST_VIEW&uid=16...

College Management Accounts Contacts

Application Forms Recently Viewed 0 items • Updated a few seconds ago

Application Form Name

New Application Form

Information

* Application Form Name

Application Form ID

* Address

* College

Search Colleges...

* date of Birth

* Email

* Guardian Name

Looking For Hostel Stay

Ready To Join Cancel Save & New Save

SpurGEAR.CATPart Show all

2112 05-01-2022

Student Dashboard SI-7859-1641289171 New Subjects | Salesforce

vwit36-dev-ed.lightning.force.com/lightning/o/Subjects_c/new?count=5&nooverride=1&useRecordTypeCheck=1&navigationLocation=LIST_VIEW&uid=164139737...

College Management Accounts Contacts Colleges Application Forms Students Subjects

Subjects Recently Viewed 0 items • Updated a few seconds ago

Subjects Name

New Subjects

Information

* Subjects Name

Owner Othuri Sai Nikhil

Subject ID

Paper 1 --None--

Paper 2 --None--

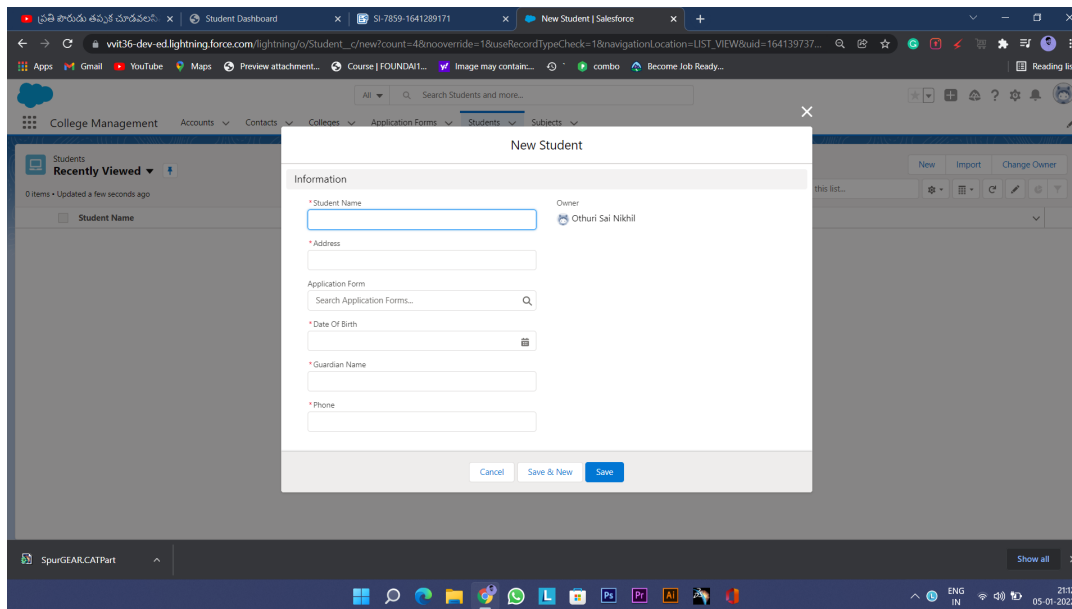
Student

Search Students...

Cancel Save & New Save

SpurGEAR.CATPart Show all

2113 05-01-2022



Day 3:

Adding Business Logic To Application:

Creating Global Picklist Value Sets

First we go to the College object

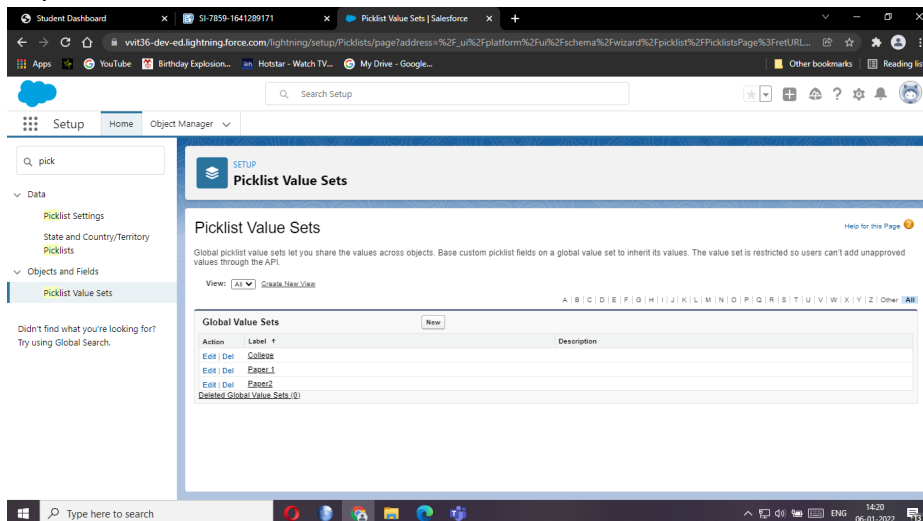
create Global picklist value sets

College values are

MIT-HYD MIT-BLR MIT-MUM MIT-MAA MIT-DEL MIT-CCU

Paper 1 values are APEX JAVA C C++

Paper2 values are MATHEMATICS ENGLISH STATISTICS



Creating Field Dependencies

Go to the College object and then to Fields and relationship and go to Field dependencies. We create a field dependency between College Name and Email.

Create a field dependency between College Name and Capacity of students.

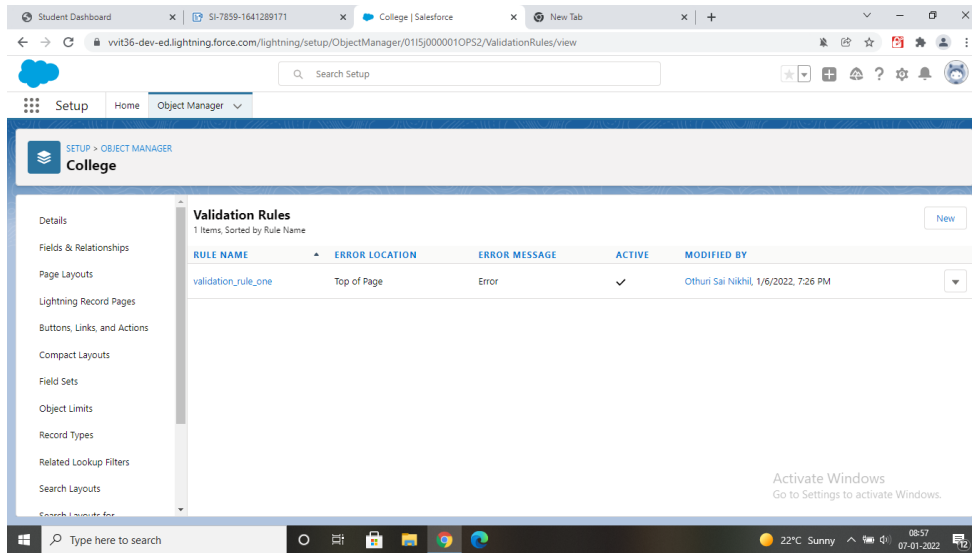
The screenshot shows the Salesforce Setup interface for the 'College' object. The left sidebar contains a navigation menu with options: Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, and Search Layouts for. The main content area is titled 'College Field Dependencies' and includes a 'Back to Custom Object: College' link. Below the title, a message states: 'This page allows you to define dependencies between fields (e.g., dependent picklists)'. A 'Field Dependencies' table is displayed with a 'New' button. The table has four columns: Action, Controlling Field, Dependent Field, and Modified By. It contains two entries:

Action	Controlling Field	Dependent Field	Modified By
Edit Del	College Name	Email	Othuri Sai Nikhil 1/5/2022, 3:34 AM
Edit Del	College Name	Capacity Of Students	Othuri Sai Nikhil 1/5/2022, 3:34 AM

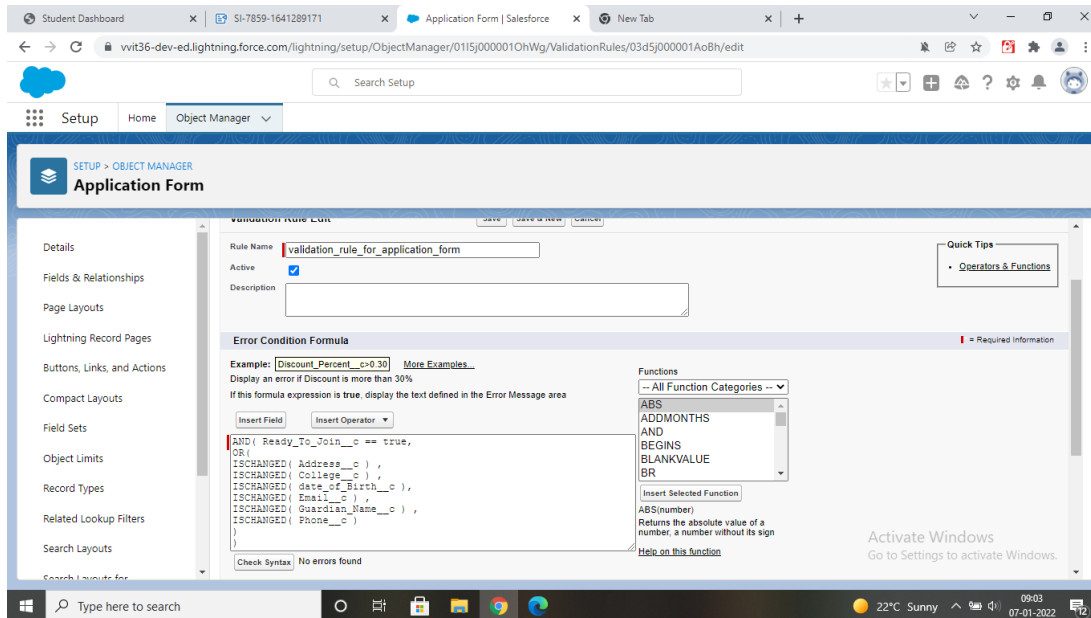
An 'Activate Windows' watermark is visible in the bottom right corner of the page.

Creating Validation Rules

First, create a validation rule on the College object and create a validation rule.



And next Create a validation rule on the application form
First we create a Student Report type and then add the validation rule



DAY:04

Process Automation

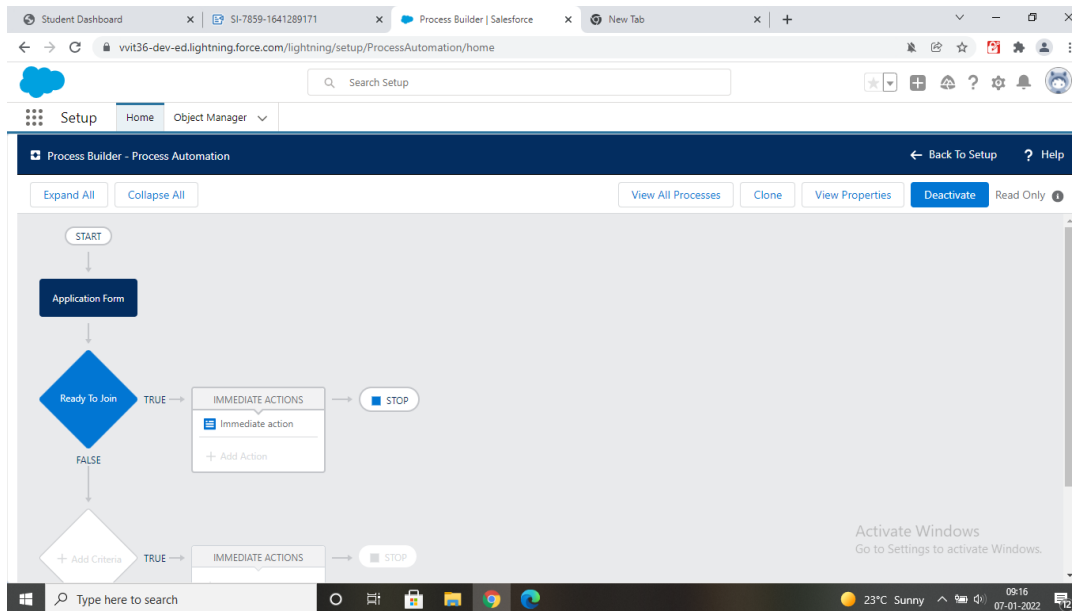
Go to Setup -> select "Process Builder" from quick find

And next click on NEW

Create a Process Builder on the "Application Form"

next click on Ready to join

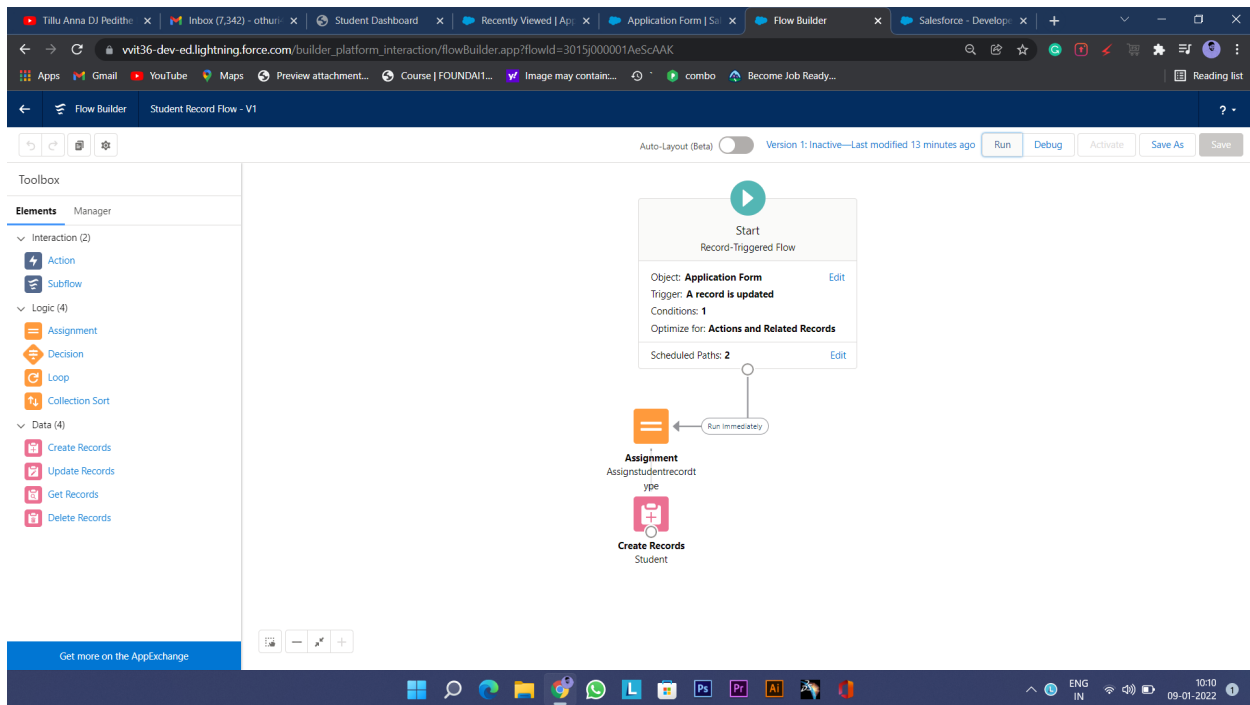
and in adjacent box click on Immediate action and select create a record on the student object and set field values for Student type



DAY:5

Create The Student Record Using Flow

- 1.First deactivate the process builder which we created earlier.
2. Now search for flows and select new flow ->record triggered flow
3. For object select application form, in configure trigger select when the record is updated for entry criteria select as ready to join equals to true.
4. Now create a variable named student in the resource section.
5. Now add the assignment to the Variable and Values
- 6.Add Create records for the student
- 7.save the Flow as Student flow



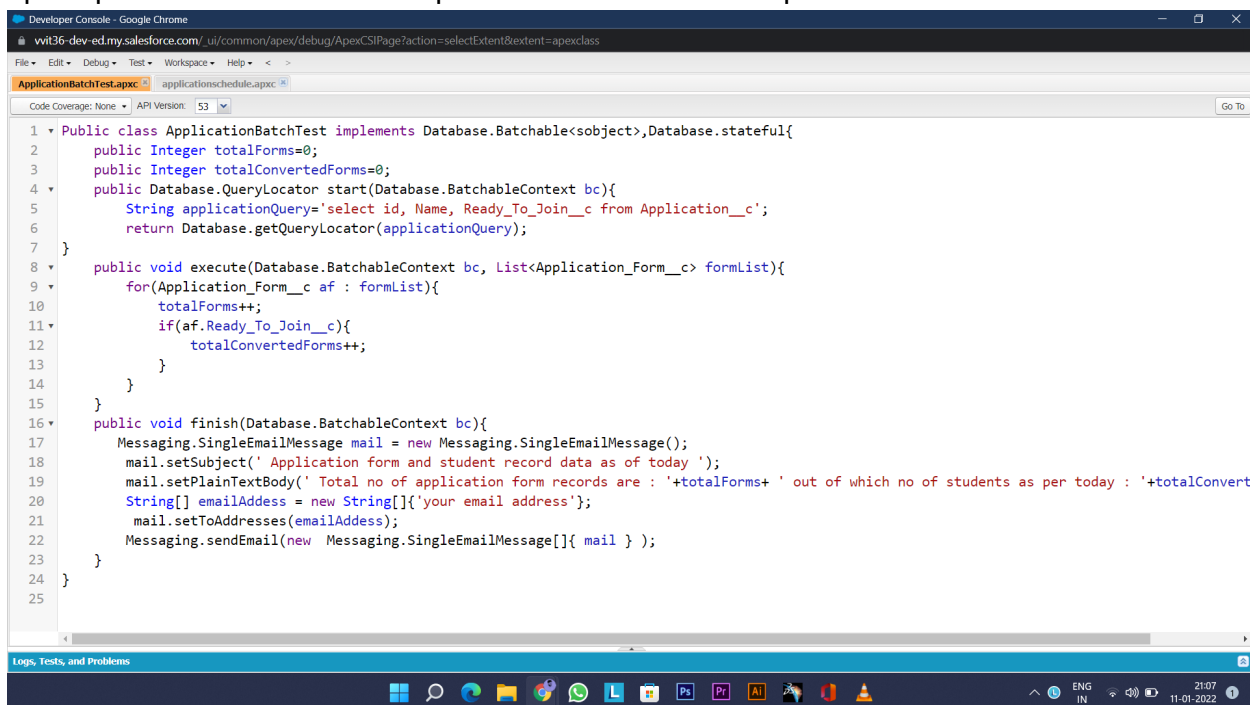
Day :06

Batch Apex

Create A Batch apex For Application Form

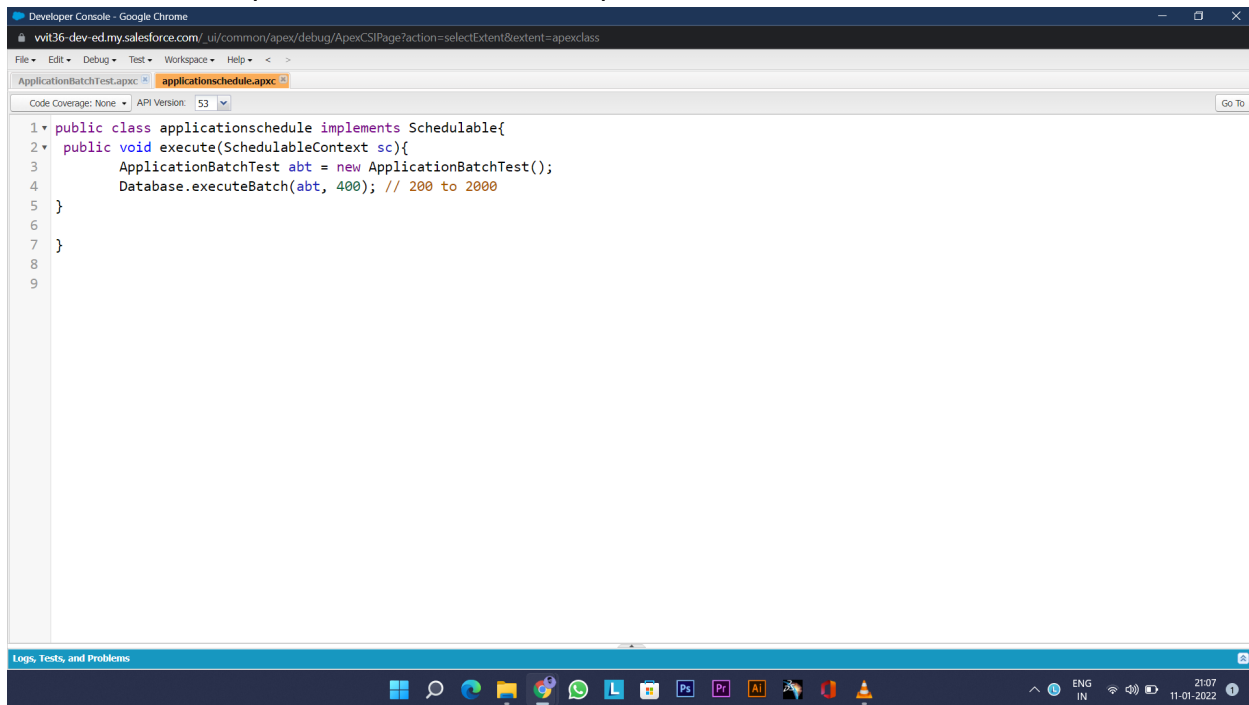
First click on Setup and search apex classes

open apex class and from developer console create a new apex class



Create A Scheduler Class

From the developer console create a new apex class



The screenshot shows the Salesforce Developer Console with a new Apex class named 'applicationschedule' created. The class implements the 'Schedulable' interface and contains a single method 'execute' that creates an 'ApplicationBatchTest' object and executes a batch of 400 records from 200 to 2000.

```
1 public class applicationschedule implements Schedulable{
2     public void execute(SchedulableContext sc){
3         ApplicationBatchTest abt = new ApplicationBatchTest();
4         Database.executeBatch(abt, 400); // 200 to 2000
5     }
6 }
7
8
9
```

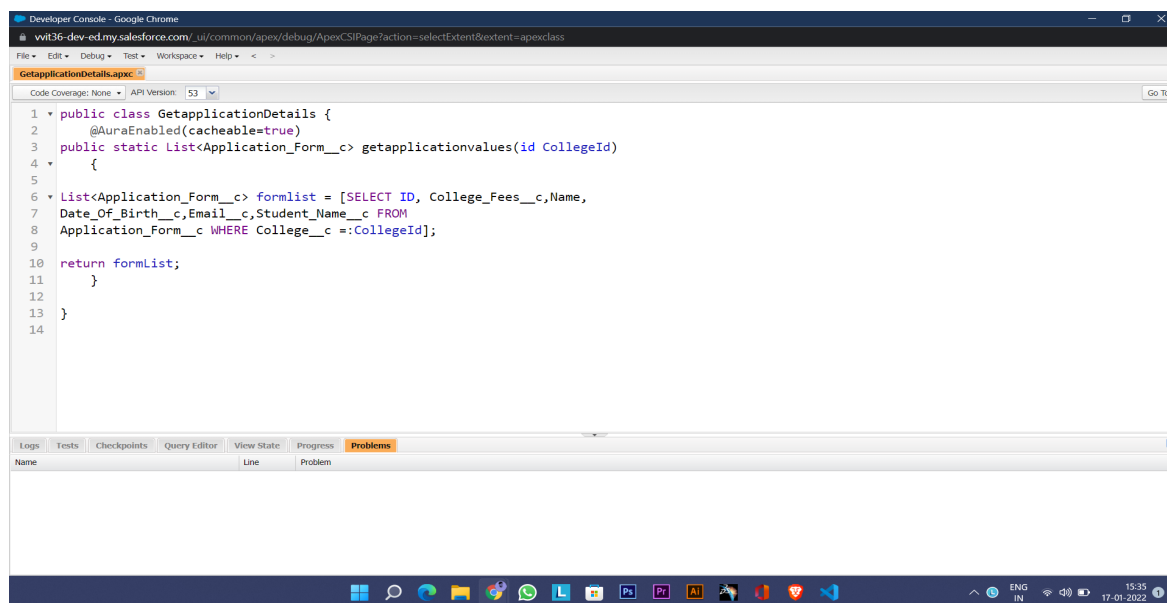
And click on schedule jobs and give the schedule to the apex

DAY 08:

Lightning Web Components

Create College DataTable Component(APEX CLASS)

First Goto setup and search Apex classes and next click on Developer console and create a apex class with name GetapplicationDetails and enter the code and click on save to save the apex class



The screenshot shows the Salesforce Developer Console with a new Apex class named 'GetapplicationDetails' created. The class is annotated with '@AuraEnabled(cacheable=true)' and contains a static method 'getapplicationvalues' that queries the 'Application_Form__c' object for records where 'College__c' equals the provided 'CollegeId'.

```
1 public class GetapplicationDetails {
2     @AuraEnabled(cacheable=true)
3     public static List<Application_Form__c> getapplicationvalues(id CollegeId)
4     {
5
6         List<Application_Form__c> formlist = [SELECT ID, College_Fees__c, Name,
7         Date_Of_Birth__c, Email__c, Student_Name__c FROM
8         Application_Form__c WHERE College__c =:CollegeId];
9
10        return formlist;
11    }
12 }
13
14
```

Day: 09

Create College DataTable Component (HTML FILE)

Open visual studio and enter the code

Save as HTML format

The screenshot shows the Visual Studio Code interface with the Explorer pane on the left displaying the project structure for 'COLLEGE MANAGEMENT'. The file 'myfirstLWC.html' is selected. The main editor shows the following HTML code:

```
1 <template>
2   <h1> College and Application form list table </h1>
3
4   <template if:true={recordList}>
5     <lightning-datatable
6       key-field="id"
7       data={recordList}
8       show-row-number-column
9       hide-checkbox-column
10      columns={columnsList}
11    >
12    </lightning-datatable>
13  </template>
14
15  <template if:true={error}>
16    {error}
17  </template>
18 </template>
```

The bottom pane shows the 'PROBLEMS' and 'OUTPUT' tabs. The 'OUTPUT' tab displays the following message:

```
19:29:46.419 Starting SFDX: Deploy Source to Org
19:29:49.561 ended SFDX: Deploy Source to Org
```

The status bar at the bottom indicates the file is 'Ln 15, Col 31' and the language is 'HTML'.

Day10:

Create College DataTable Component(JAVA SCRIPT FILE)

After the creation of the Html file create the java script file name it as college date table

The screenshot shows the Visual Studio Code interface with the Explorer pane on the left displaying the project structure for 'COLLEGE MANAGEMENT'. The file 'myfirstLWC.js' is selected. The main editor shows the following JavaScript code:

```
1 import { LightningElement, api, wire } from 'lwc';
2 import getApplicationValues
3 from '@salesforce/apex/getApplicationDetails.getApplicationValues';
4 export default class CollegeDataTable extends LightningElement {
5   columnsList = [
6     {label: 'Application Form', fieldName: 'Name', type: 'text' },
7     {label: 'College Fees', fieldName: 'College_Fees_c', type: 'currency' },
8     {label: 'Date Of Birth', fieldName: 'Date_Of_Birth_c', type: 'date' },
9     {label: 'Email', fieldName: 'Email_c', type: 'email' },
10    {label: 'Hostel Fees', fieldName: 'Hostel_Fees_c', type: 'currency' },
11    {label: 'StudentName', fieldName: 'Student_Name_c', type: 'text' }
12  ];
13
14  @api recordId;
15  recordList;
16  error;
17
18  @wire(getApplicationValues, {collegeId: '$recordId'})
19  wiredCollegeData({data, error}){
20    if(data){
21      this.recordList = data;
22    }
23  }
```

The bottom pane shows the 'PROBLEMS' and 'OUTPUT' tabs. The 'OUTPUT' tab displays the following message:

```
19:28:50.84 Starting SFDX: Deploy Source to Org
19:28:55.929 ended SFDX: Deploy Source to Org
```

The status bar at the bottom indicates the file is 'Ln 25, Col 39' and the language is 'JavaScript'.

Create College DataTable Component(META FILE)

