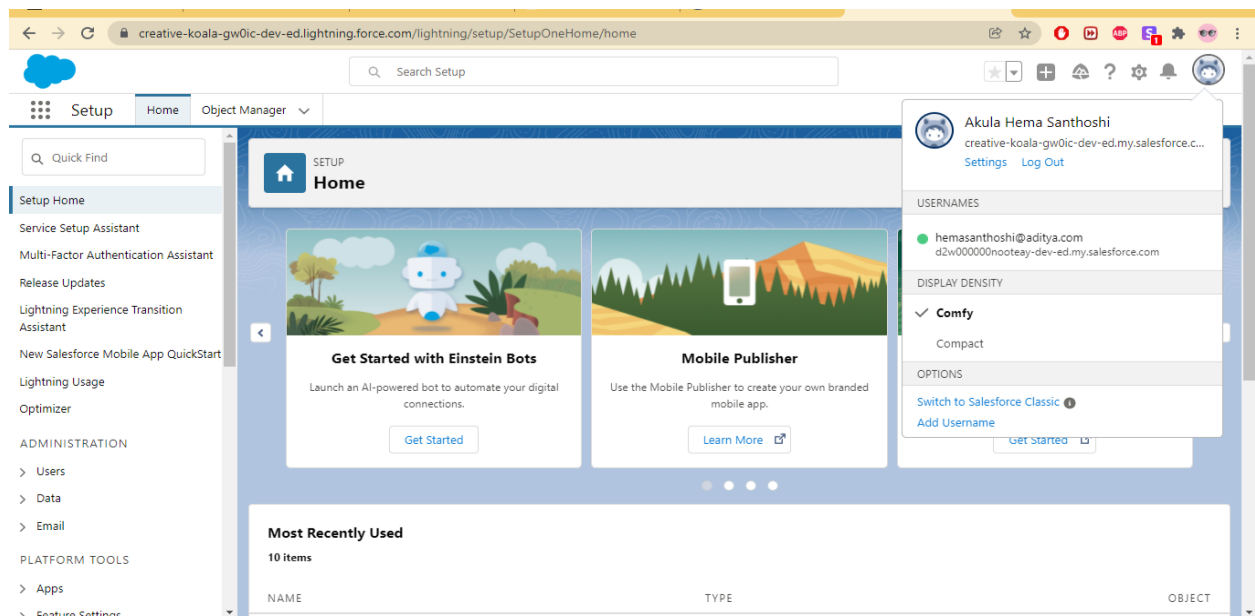


# COLLEGE MANAGEMENT APPLICATION

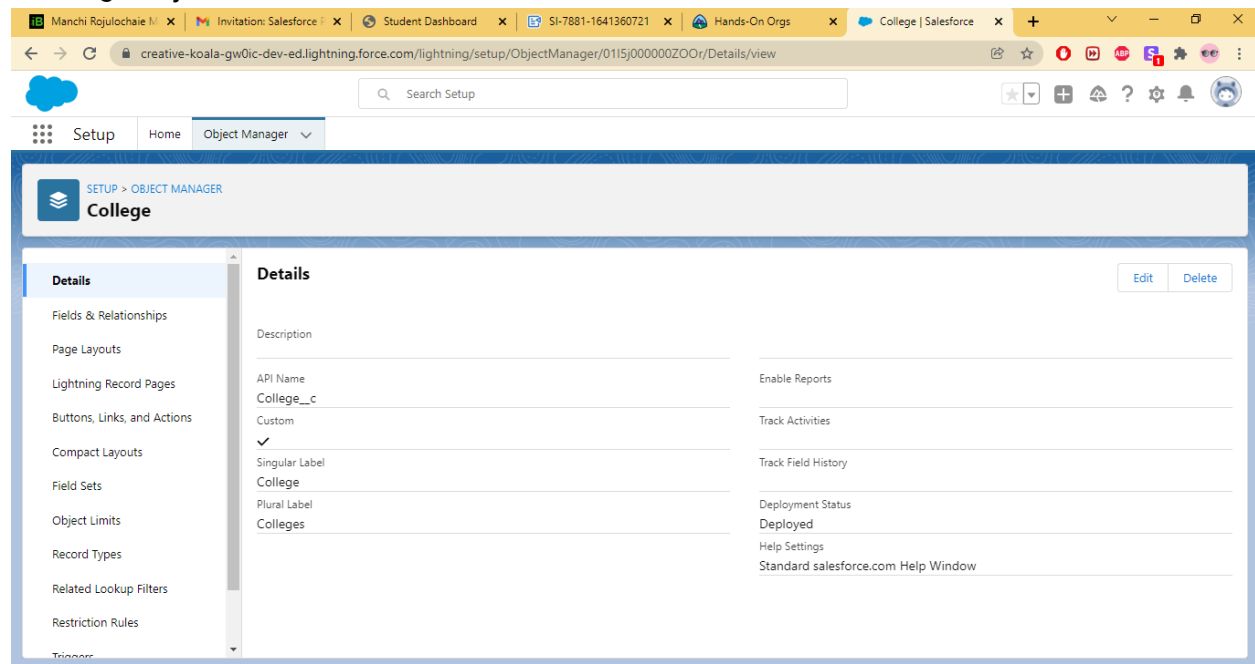
Day1- created the salesforce trailhead playground



=> Created the application named as College Management and given access to the System admin so, that the app will be visible.

Day2- created custom objects

1.College Object:



# COLLEGE MANAGEMENT APPLICATION

## 2.Application Form

Manchi Rajulochare | x

Invitation: Salesforce | x

Student Dashboard | x

SI-7881-1641360721 | x

Hands-On Orgs | x

Application Form | Sai | x

+

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creative-koala-gw0ic-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000ZOP1/Details/view

🔍 Search Setup

★ + 🔄 ? ⚙️ 🔔 👤

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Application Form

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

Triggers

Details

Description

API Name

Application\_Form\_\_c

Custom

✓

Singular Label

Application Form

Plural Label

Application Forms

Enable Reports

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

Standard salesforce.com Help Window

Edit

Delete

## 3. Student

Manchi Rajulochare | x

Invitation: Salesforce | x

Student Dashboard | x

SI-7881-1641360721 | x

Hands-On Orgs | x

Student | Salesforce | x

+

⌵

—

🔍

✕

creative-koala-gw0ic-dev-ed.lightning.force.com/lightning/setup/ObjectManager/0115j000000ZOPG/Details/view

🔍 Search Setup

★ + 🔄 ? ⚙️ 🔔 👤

Setup

Home

Object Manager

SETUP > OBJECT MANAGER

Student

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Restriction Rules

Triggers

Details

Description

API Name

Student\_\_c

Custom

✓

Singular Label

Student

Plural Label

Students

Enable Reports

Track Activities

Track Field History

Deployment Status

Deployed

Help Settings

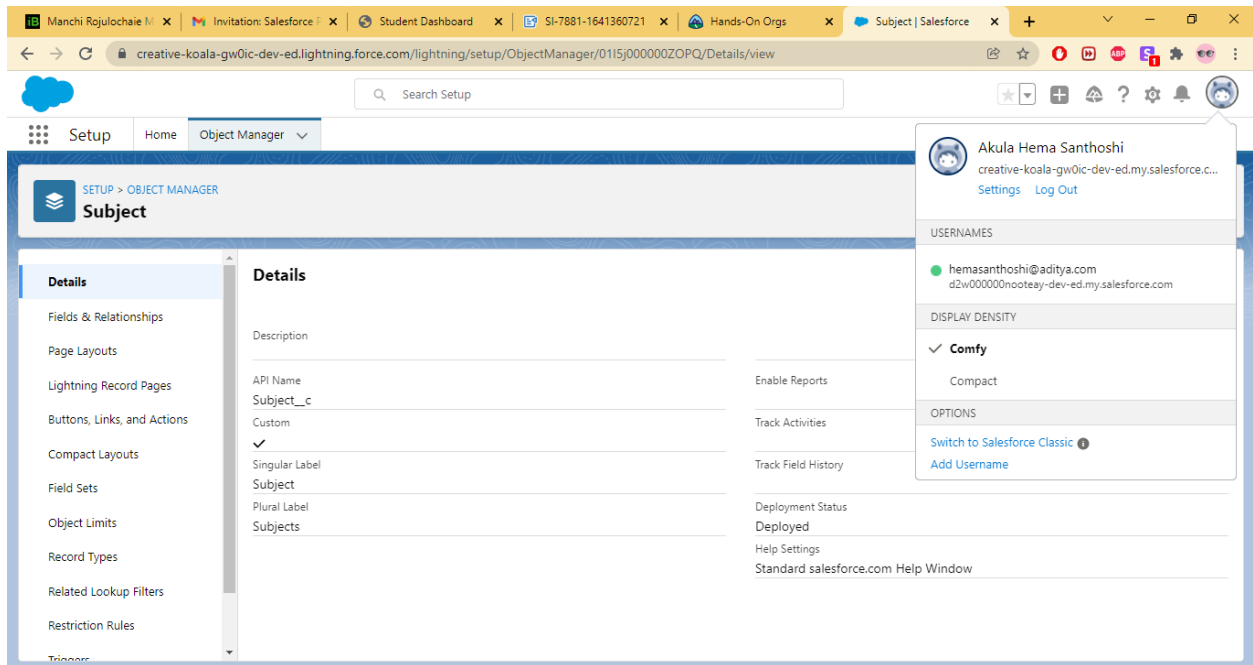
Standard salesforce.com Help Window

Edit

Delete

# COLLEGE MANAGEMENT APPLICATION

## 4.Subject

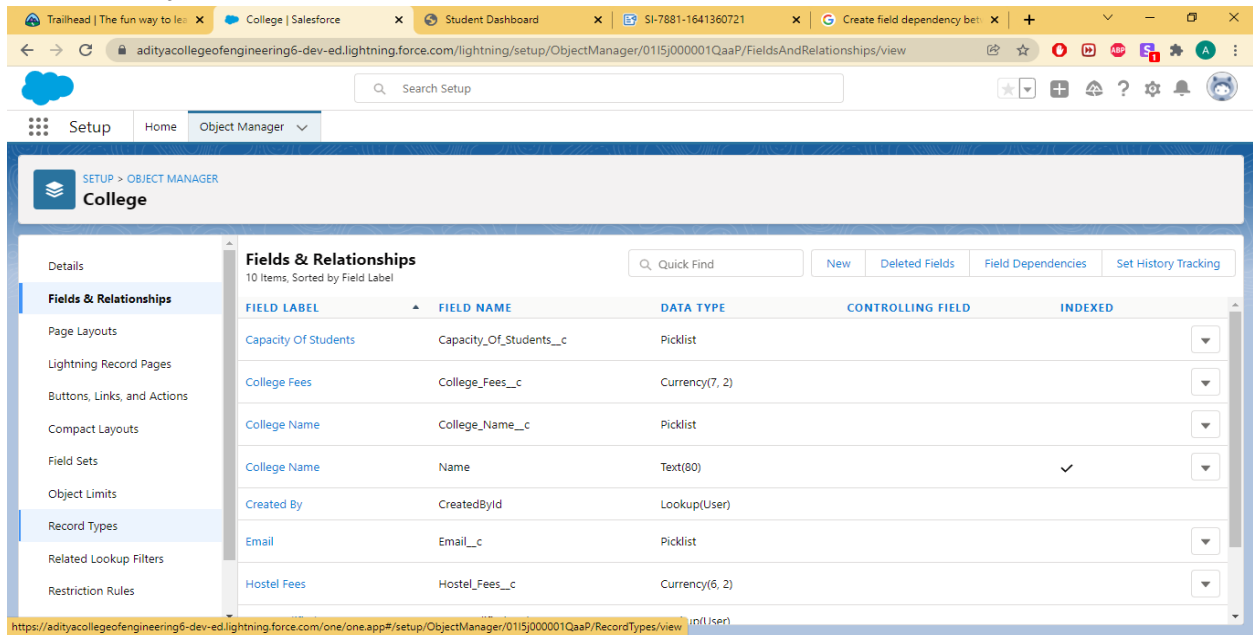


=> Created Tabs for the respected custom objects so, that the tabs will be visible in college management application

# COLLEGE MANAGEMENT APPLICATION

Day3: created fields for respective objects

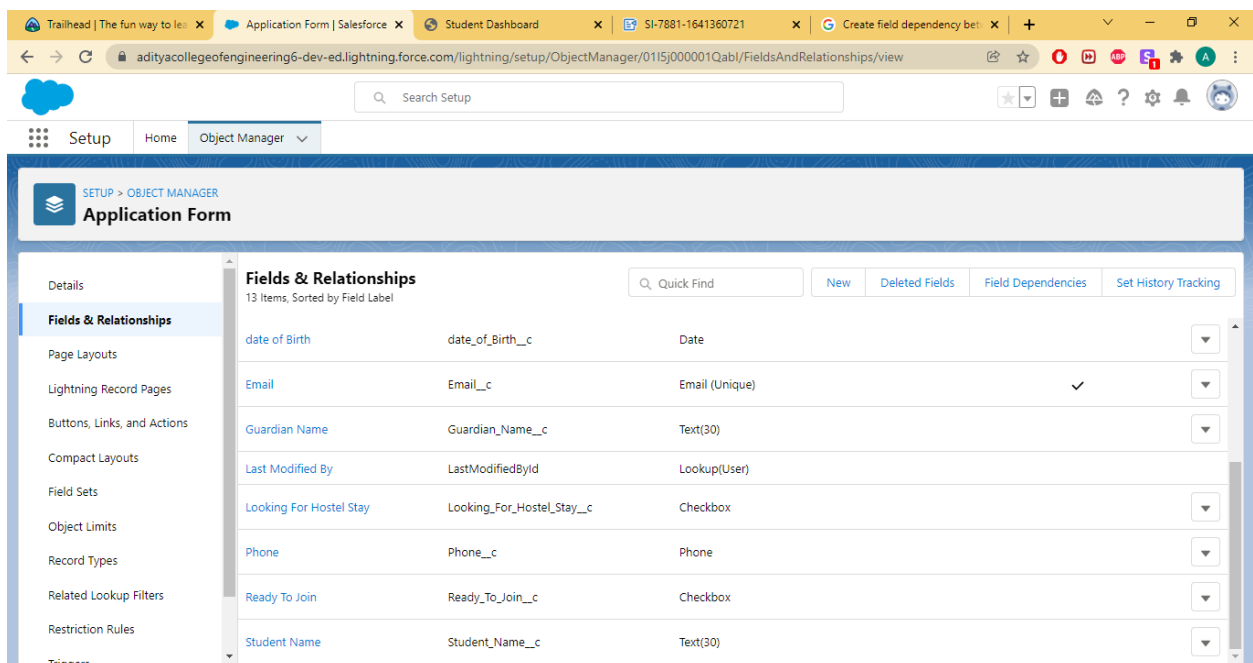
## 1.College object fields



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, and Restriction Rules. The main content area is titled 'Fields & Relationships' and shows a list of 10 fields. The fields are sorted by Field Label. The table has columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: Capacity Of Students (Capacity\_Of\_Students\_\_c, Picklist), College Fees (College\_Fees\_\_c, Currency(7, 2)), College Name (College\_Name\_\_c, Picklist), College Name (Name, Text(80), indexed), Created By (CreatedById, Lookup(User)), Email (Email\_\_c, Picklist), and Hostel Fees (Hostel\_Fees\_\_c, Currency(6, 2)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Capacity Of Students	Capacity_Of_Students__c	Picklist		
College Fees	College_Fees__c	Currency(7, 2)		
College Name	College_Name__c	Picklist		
College Name	Name	Text(80)		✓
Created By	CreatedById	Lookup(User)		
Email	Email__c	Picklist		
Hostel Fees	Hostel_Fees__c	Currency(6, 2)		

## 2.Application form object fields



The screenshot shows the Salesforce Setup interface for the 'Application Form' 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, and Restriction Rules. The main content area is titled 'Fields & Relationships' and shows a list of 13 fields. The fields are sorted by Field Label. The table has columns: FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are: date of Birth (date\_of\_Birth\_\_c, Date), Email (Email\_\_c, Email (Unique), indexed), Guardian Name (Guardian\_Name\_\_c, Text(30)), Last Modified By (LastModifiedById, Lookup(User)), Looking For Hostel Stay (Looking\_For\_Hostel\_Stay\_\_c, Checkbox), Phone (Phone\_\_c, Phone), Ready To Join (Ready\_To\_Join\_\_c, Checkbox), and Student Name (Student\_Name\_\_c, Text(30)).

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
date of Birth	date_of_Birth__c	Date		
Email	Email__c	Email (Unique)		✓
Guardian Name	Guardian_Name__c	Text(30)		
Last Modified By	LastModifiedById	Lookup(User)		
Looking For Hostel Stay	Looking_For_Hostel_Stay__c	Checkbox		
Phone	Phone__c	Phone		
Ready To Join	Ready_To_Join__c	Checkbox		
Student Name	Student_Name__c	Text(30)		

# COLLEGE MANAGEMENT APPLICATION

## 3.Student object fields

The screenshot shows the Salesforce Object Manager interface for the 'Student' 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, and Restriction Rules. The main content area is titled 'Fields & Relationships' and shows 11 items, sorted by Field Label. The fields are listed in a table with columns for Field Label, Field Name, and Data Type. The fields are: College Name (Formula (Text)), Created By (Lookup(User)), Date Of Birth (Date), Guardian Name (Text(30)), Last Modified By (Lookup(User)), Owner (Lookup(User,Group)), Phone (Phone), and Student Name (Text(30)).

Field Label	Field Name	Data Type
College Name	College_Name__c	Formula (Text)
Created By	CreatedById	Lookup(User)
Date Of Birth	Date_Of_Birth__c	Date
Guardian Name	Guardian_Name__c	Text(30)
Last Modified By	LastModifiedById	Lookup(User)
Owner	OwnerId	Lookup(User,Group)
Phone	Phone__c	Phone
Student Name	Student_Name__c	Text(30)

## 4.subject object fields

The screenshot shows the Salesforce Object Manager interface for the 'Subject' 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, and Restriction Rules. The main content area is titled 'Fields & Relationships' and shows 8 items, sorted by Field Label. The fields are listed in a table with columns for Field Label, Field Name, Data Type, Controlling Field, and Indexed. The fields are: Created By (Lookup(User)), Last Modified By (Lookup(User)), Owner (Lookup(User,Group)), Paper1 (Picklist), Paper2 (Picklist), Student (Lookup(Student)), Subject ID (Auto Number), and Subject Name (Text(80)).

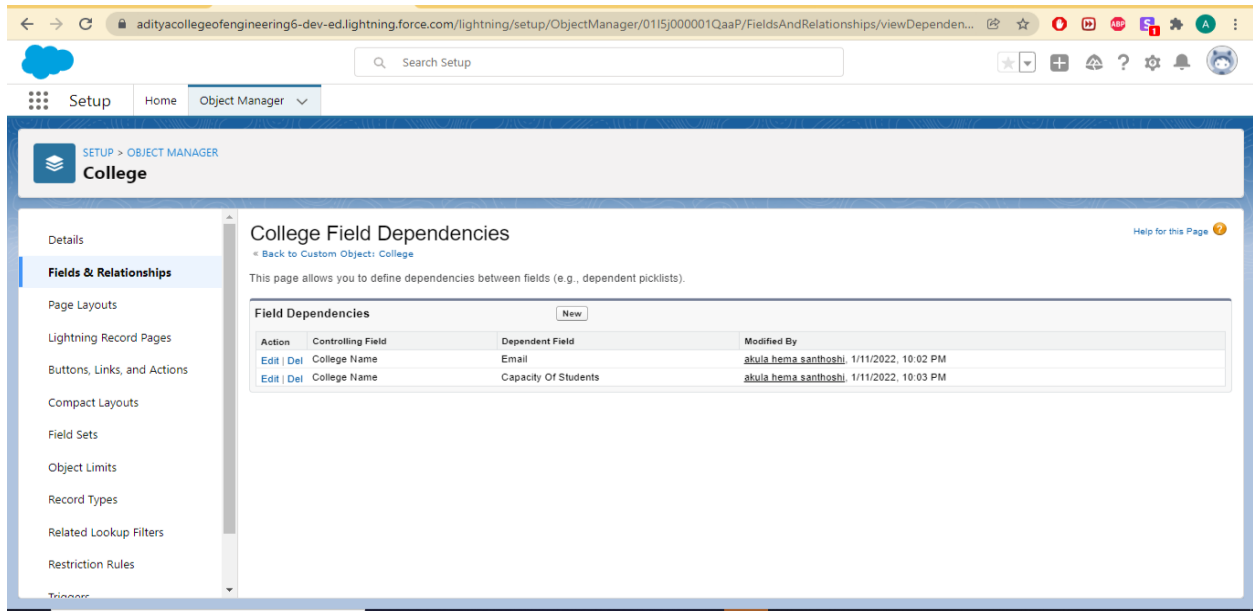
Field Label	Field Name	Data Type	Controlling Field	Indexed
Created By	CreatedById	Lookup(User)		
Last Modified By	LastModifiedById	Lookup(User)		
Owner	OwnerId	Lookup(User,Group)		✓
Paper1	Paper1__c	Picklist		
Paper2	Paper2__c	Picklist		
Student	Student__c	Lookup(Student)		✓
Subject ID	Subject_ID__c	Auto Number		
Subject Name	Name	Text(80)		✓

# COLLEGE MANAGEMENT APPLICATION

## Day4: Adding Business Logic to Application

I created the global picklist values when I'm creating the fields to the respective objects.

created field dependencies



The screenshot shows the Salesforce Setup interface for a custom object named 'College'. The left sidebar contains a navigation menu with options like Details, Fields & Relationships (selected), Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Restriction Rules. 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 table titled 'Field Dependencies' with a 'New' button contains two entries:

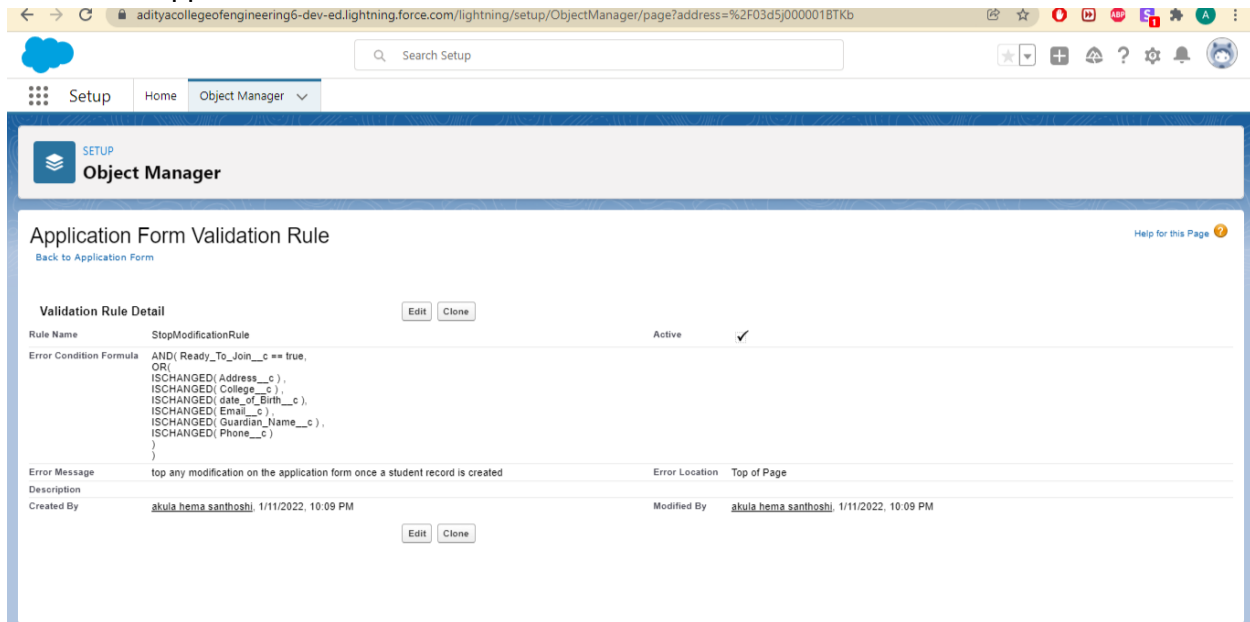
Action	Controlling Field	Dependent Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	Email	akula hema santhoshi   1/11/2022, 10:02 PM
<a href="#">Edit</a>   <a href="#">Del</a>	College Name	Capacity Of Students	akula hema santhoshi   1/11/2022, 10:03 PM

# COLLEGE MANAGEMENT APPLICATION

Day 5:

Created Validation Rules

## 1. On ApplicationForm

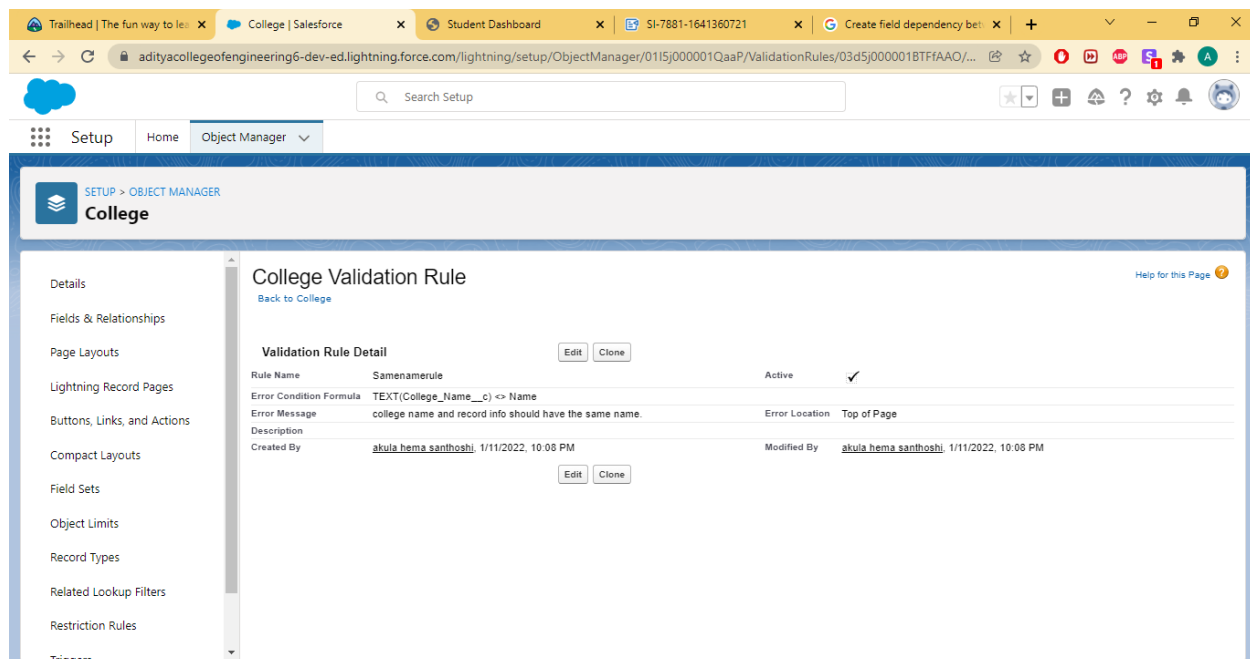


The screenshot shows the Salesforce Setup interface for the 'Object Manager' section. The page title is 'Application Form Validation Rule'. The breadcrumb trail is 'Setup > Object Manager'. The page contains a 'Validation Rule Detail' section with the following information:

Field	Value
Rule Name	StopModificationRule
Error Condition Formula	AND( Ready_To_Join__c == true, OR( ISCHANGED( Address__c ), ISCHANGED( College__c ), ISCHANGED( date_of_Birth__c ), ISCHANGED( Email__c ), ISCHANGED( Guardian_Name__c ), ISCHANGED( Phone__c ) ) )
Error Message	top any modification on the application form once a student record is created
Error Location	Top of Page
Description	
Created By	akula hema santhoshi 1/11/2022, 10:09 PM
Modified By	akula hema santhoshi 1/11/2022, 10:09 PM

The rule is active, as indicated by the 'Active' checkbox being checked.

## 2. On College Object



The screenshot shows the Salesforce Setup interface for the 'Object Manager' section, specifically for the 'College' object. The page title is 'College Validation Rule'. The breadcrumb trail is 'Setup > OBJECT MANAGER > College'. The page contains a 'Validation Rule Detail' section with the following information:

Field	Value
Rule Name	Samenamerule
Error Condition Formula	TEXT(College_Name__c) <> Name
Error Message	college name and record info should have the same name.
Error Location	Top of Page
Description	
Created By	akula hema santhoshi 1/11/2022, 10:08 PM
Modified By	akula hema santhoshi 1/11/2022, 10:08 PM

The rule is active, as indicated by the 'Active' checkbox being checked.

# COLLEGE MANAGEMENT APPLICATION

Day 6:  
process builder:

The screenshot displays the Salesforce Process Builder interface. The main canvas shows a flowchart starting with a 'START' node, followed by an 'Application Form' object. A decision diamond labeled 'a record changes' follows. The 'TRUE' path leads to an 'IMMEDIATE ACTIONS' box containing a 'create a record' action, which then leads to a 'STOP' node. The 'FALSE' path leads to another decision diamond with '+ Add Criteria', which then leads to another 'IMMEDIATE ACTIONS' box and a 'STOP' node. On the right, the 'Create a Record' configuration panel is open, showing 'Record Type' set to 'Student'. Below, the 'Set Field Values' table is populated with field references for Address, Date Of Birth, Phone, Student Name, Application Form, and Guardian Name.

Field *	Type *	Value *
Address	Field Reference	[Application_Form_c].A... Q
Date Of Birth	Field Reference	[Application_Form_c].d... Q
Phone	Field Reference	[Application_Form_c].P... Q
Student Name	Field Reference	[Application_Form_c].S... Q
Application Form	Field Reference	[Application_Form_c].Id Q
Guardian Name	Field Reference	[Application_Form_c].G... Q

TESTING THE PROCESS BUILDER:  
created an application form and marked it as ready to join.



# COLLEGE MANAGEMENT APPLICATION

This screenshot shows a Salesforce application form for a student named 'hema santhoshi'. The form is titled 'Application Form hema santhoshi' and includes fields for Application Form Name, Application Form ID, Address, College, Date of Birth, Email, Guardian Name, Looking For Hostel Stay, Ready To Join, and Student Name. The form is displayed in a web browser window with the URL 'adityacollegeofengineering6-dev-ed.lightning.force.com/lightning/r/Application\_Form\_\_c/a015j000008QC5TAAG/view'. The browser's address bar shows the URL, and the page header includes the Salesforce logo and navigation tabs like 'College Management', 'Accounts', 'Campaigns', 'Cases', 'Contacts', 'Dashboards', 'Home', 'Leads', 'Opportunities', 'Application Forms', and 'More'. The form fields are as follows:

Field	Value
Application Form Name	hema santhoshi
Application Form ID	F-000001
Address	kovvur
College	MIT-HYD
date of Birth	1/3/2001
Email	abcd@gmail.com
Guardian Name	murty
Looking For Hostel Stay	<input type="checkbox"/>
Ready To Join	<input checked="" type="checkbox"/>
Student Name	hema

the student record is also created simultaneously:

This screenshot shows a Salesforce student record for a student named 'a025j000002Og0j'. The record is titled 'Student a025j000002Og0j' and includes fields for Student Name, Address, Application Form, College Name, Date Of Birth, Guardian Name, Phone, and Created By. The record is displayed in a web browser window with the URL 'adityacollegeofengineering6-dev-ed.lightning.force.com/lightning/r/Student\_\_c/a025j000002Og0jAAC/view'. The browser's address bar shows the URL, and the page header includes the Salesforce logo and navigation tabs like 'College Management', 'Accounts', 'Campaigns', 'Cases', 'Contacts', 'Dashboards', 'Home', 'Leads', 'Opportunities', 'Reports', 'Students', and 'More'. The record fields are as follows:

Field	Value
Student Name	a025j000002Og0j
Student Name	hema
Address	kovvur
Application Form	hema santhoshi
College Name	MIT-HYD
Date Of Birth	1/3/2001
Guardian Name	murty
Phone	98748756
Created By	akula hema santhoshi, 1/12/2022, 2:54 AM

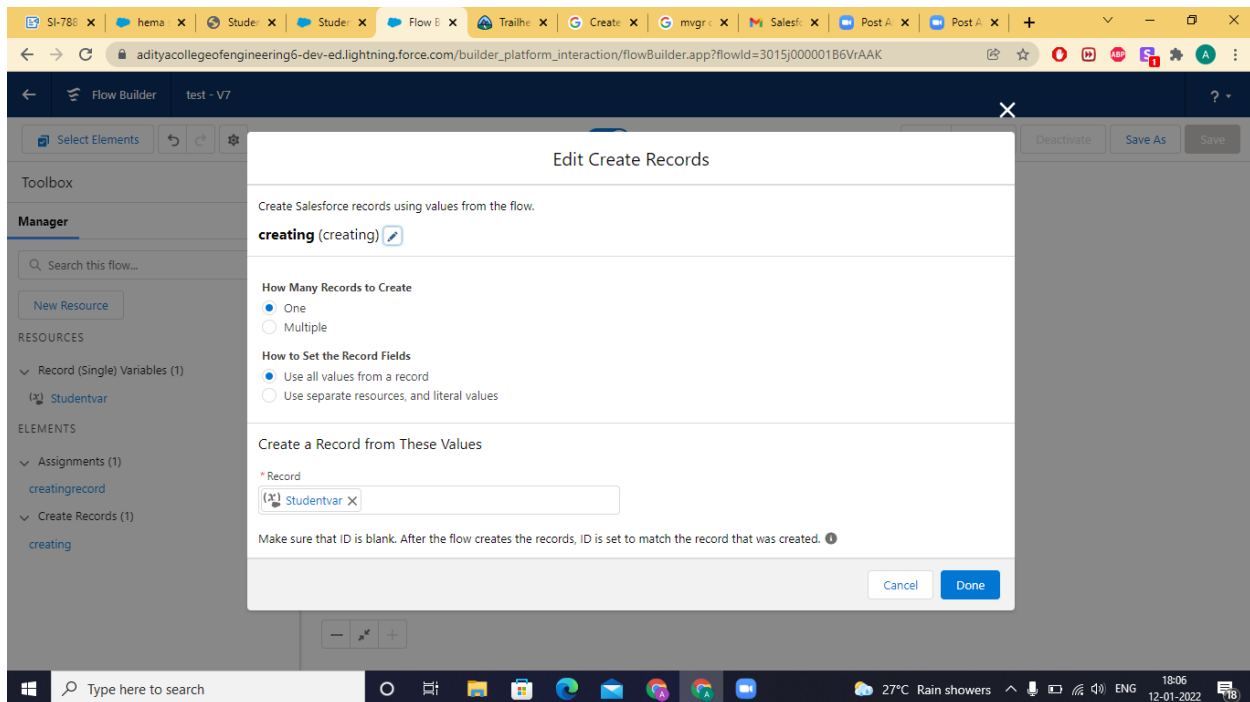
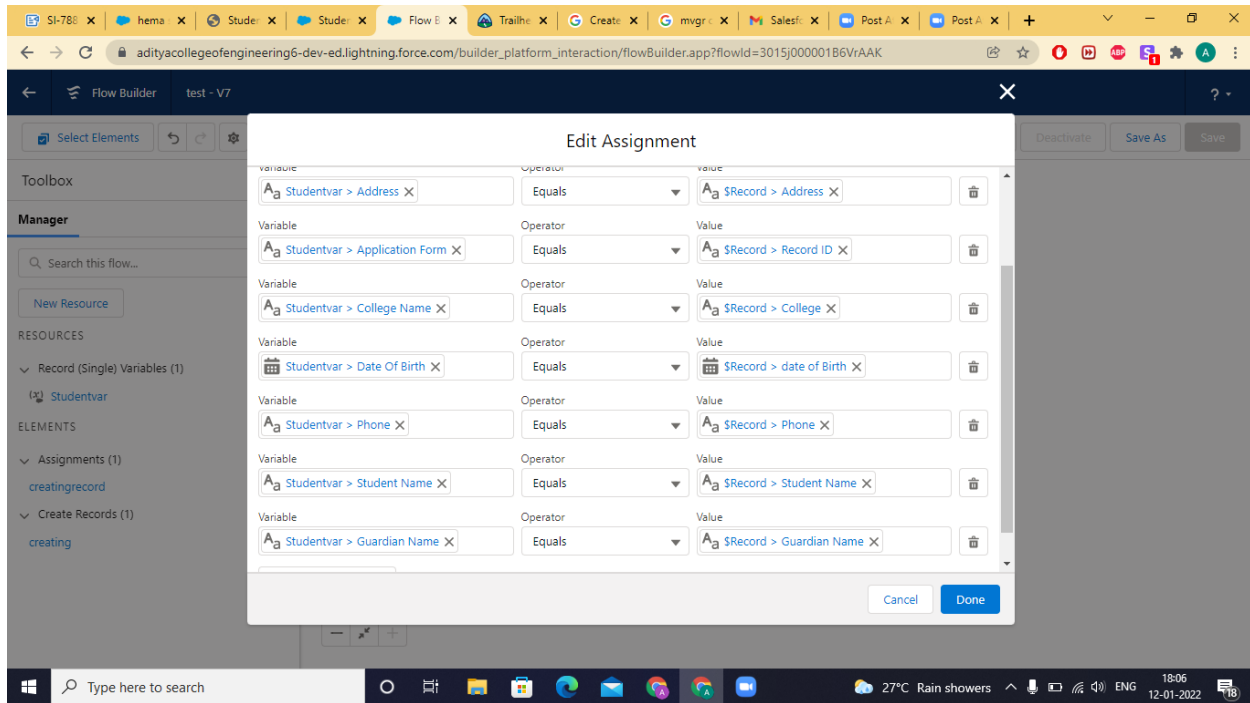
# COLLEGE MANAGEMENT APPLICATION

DAY 7: By deactivating the process builder we are creating the flow builder according to the challenge.

create the student record using flow

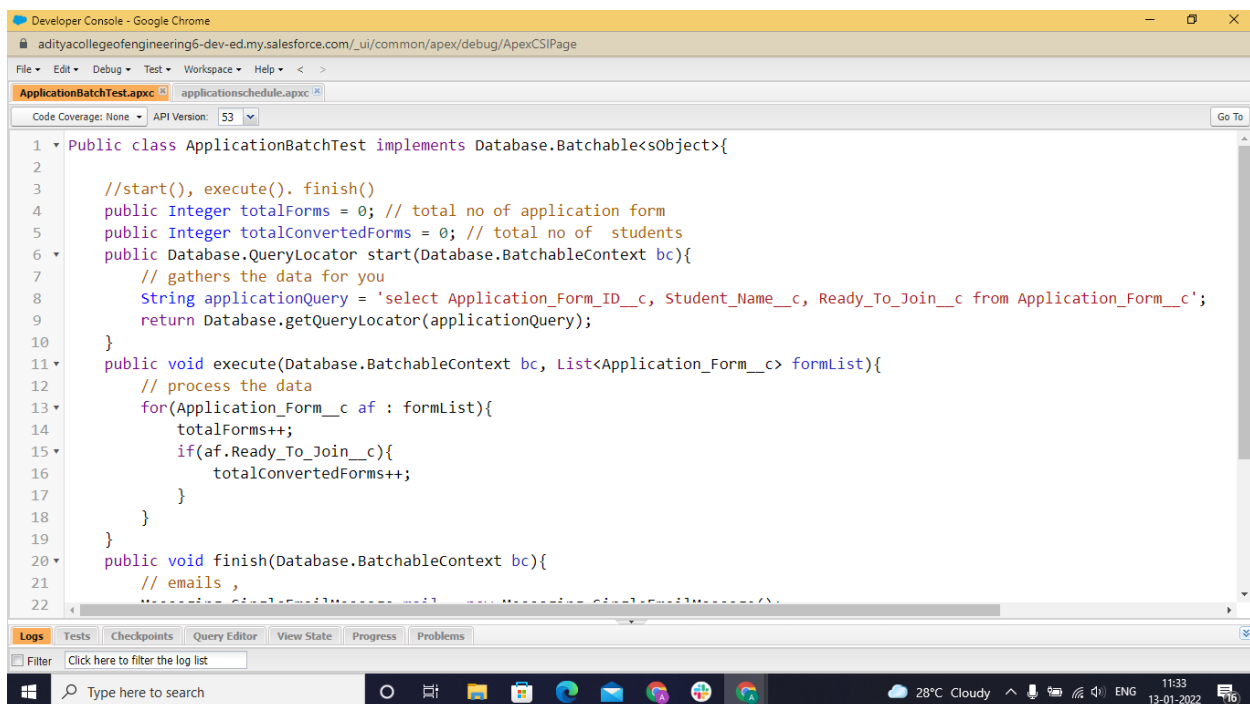
The screenshot displays the Salesforce Flow Builder interface. The browser address bar shows the URL: `adityacollegeofengineering6-dev-ed.lightning.force.com/builder_platform_interaction/flowBuilder.app?flowId=3015j000001B6VrAAK`. The interface includes a left-hand sidebar with a 'Toolbox' section containing 'Manager', 'RESOURCES' (with 'Record (Single) Variables (1)' and 'Studentvar'), and 'ELEMENTS' (with 'Assignments (1)' containing 'creatingrecord', and 'Create Records (1)' containing 'creating'). The main workspace shows a flow diagram starting with a 'Start' node (Record-Triggered Flow) for 'Application Form' with the trigger 'A record is created or updated'. This is followed by a 'Run Immediately' node, then an 'Assignment' node labeled 'creatingrecord', and finally a 'Create Records' node labeled 'creating'. The bottom of the screen shows a Windows taskbar with the search bar and system tray.

# COLLEGE MANAGEMENT APPLICATION



# COLLEGE MANAGEMENT APPLICATION

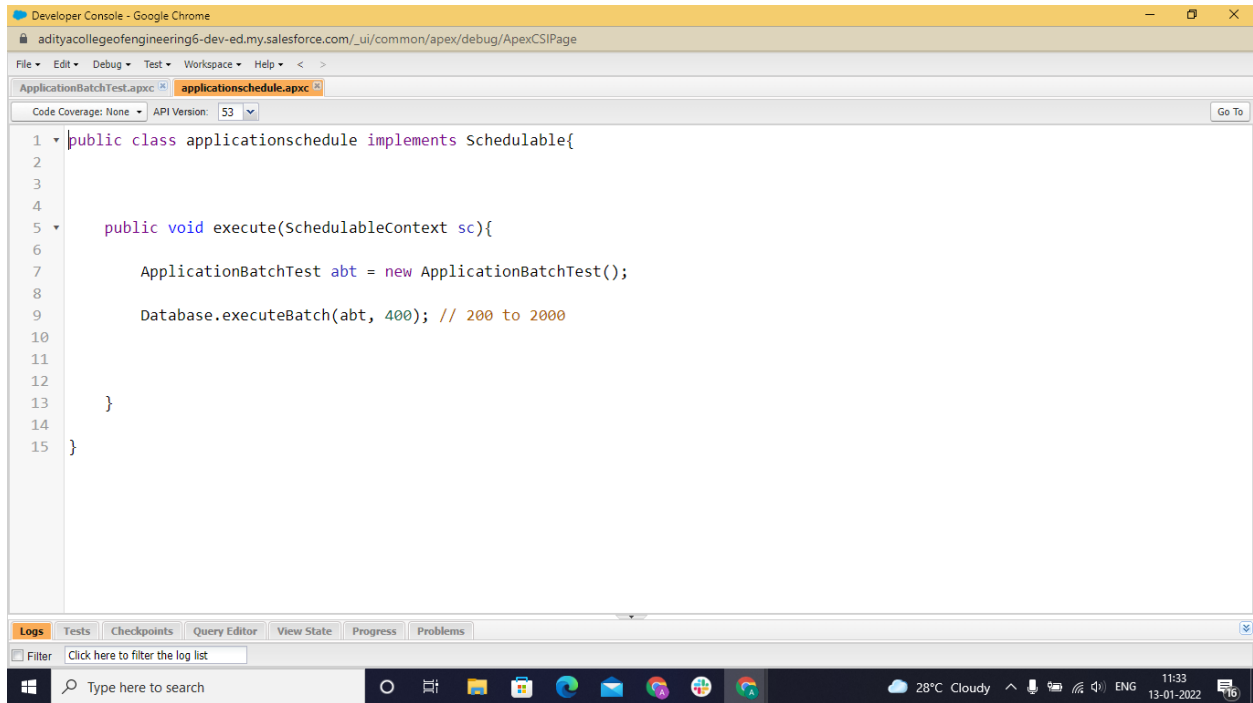
Day 8 and Day 9:  
created batch and scheduler classes



The screenshot displays the Salesforce Developer Console interface. The top bar shows the URL: `adityacollegeofengineering6-dev-ed.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. The editor is open to the file `ApplicationBatchTest.apxc`. The code defines a class `ApplicationBatchTest` that implements `Database.Batchable<SObject>`. The class includes methods for `start`, `execute`, and `finish`. The `start` method initializes a query to select application forms. The `execute` method iterates through a list of application forms, incrementing counters for total forms and converted forms based on the `Ready_To_Join__c` field. The `finish` method is currently empty, with comments indicating where email messages would be sent.

```
1 Public class ApplicationBatchTest implements Database.Batchable<SObject>{
2
3     //start(), execute(). finish()
4     public Integer totalForms = 0; // total no of application form
5     public Integer totalConvertedForms = 0; // total no of students
6     public Database.QueryLocator start(Database.BatchableContext bc){
7         // gathers the data for you
8         String applicationQuery = 'select Application_Form_ID__c, Student_Name__c, Ready_To_Join__c from Application_Form__c';
9         return Database.getQueryLocator(applicationQuery);
10    }
11    public void execute(Database.BatchableContext bc, List<Application_Form__c> formList){
12        // process the data
13        for(Application_Form__c af : formList){
14            totalForms++;
15            if(af.Ready_To_Join__c){
16                totalConvertedForms++;
17            }
18        }
19    }
20    public void finish(Database.BatchableContext bc){
21        // emails ,
22        // Messaging.SingleEmailMessage m1 = new Messaging.SingleEmailMessage();
```

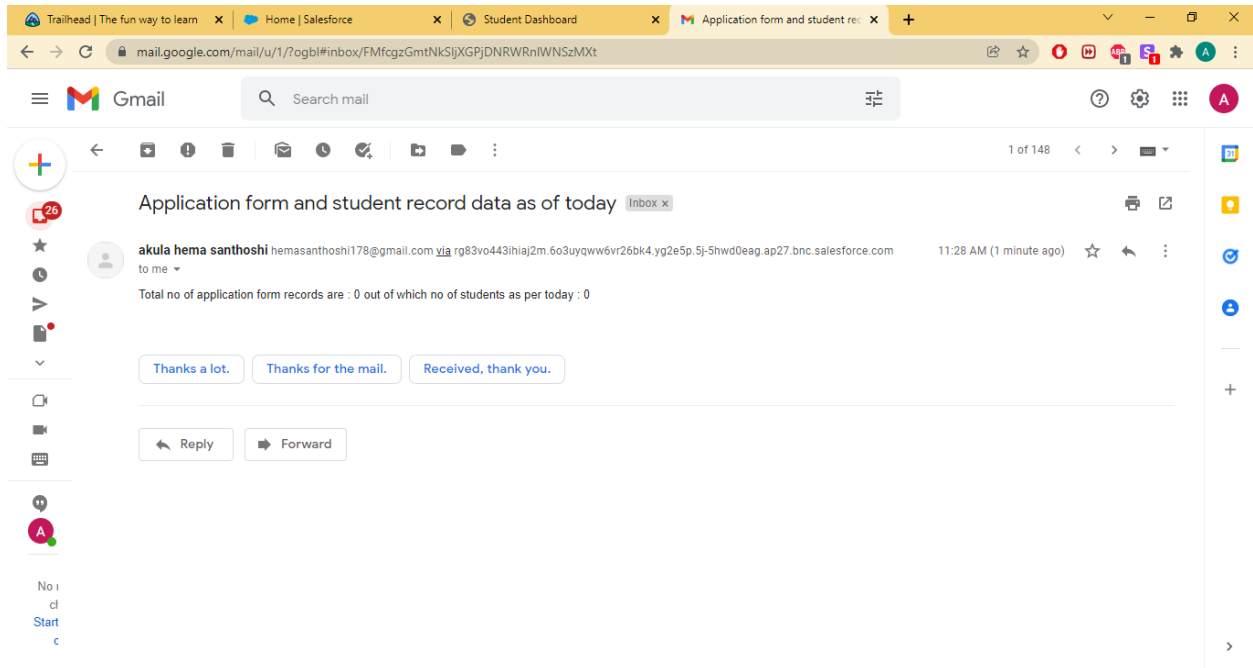
# COLLEGE MANAGEMENT APPLICATION



## TESTING THE APEX CODE:

=> as I didn't created any application form so I got 0.

# COLLEGE MANAGEMENT APPLICATION



----end----