

Garage Management system

College Name: Akshaya college of arts and science

College Code: brubw

TEAM ID: NM2025TMID24882

TEAM MEMBERS: 4

Team LeaderName: BEVANKISHOR M

Email: 23csbevankizhar@acascbe.edu.in

Team Member1: ATHIF FARHAN U

Email: 23csathiffarhan@acascbe.edu.in

Team Member: NANTHAKUMAR V

Email: 23csnanthakumar@acascbe.edu.in

Team Member: BHARANIDHARAN A

Email: 23bharanidharan@acascbe.edu.in

1.INTRODUCTION

1.1 Project Overview

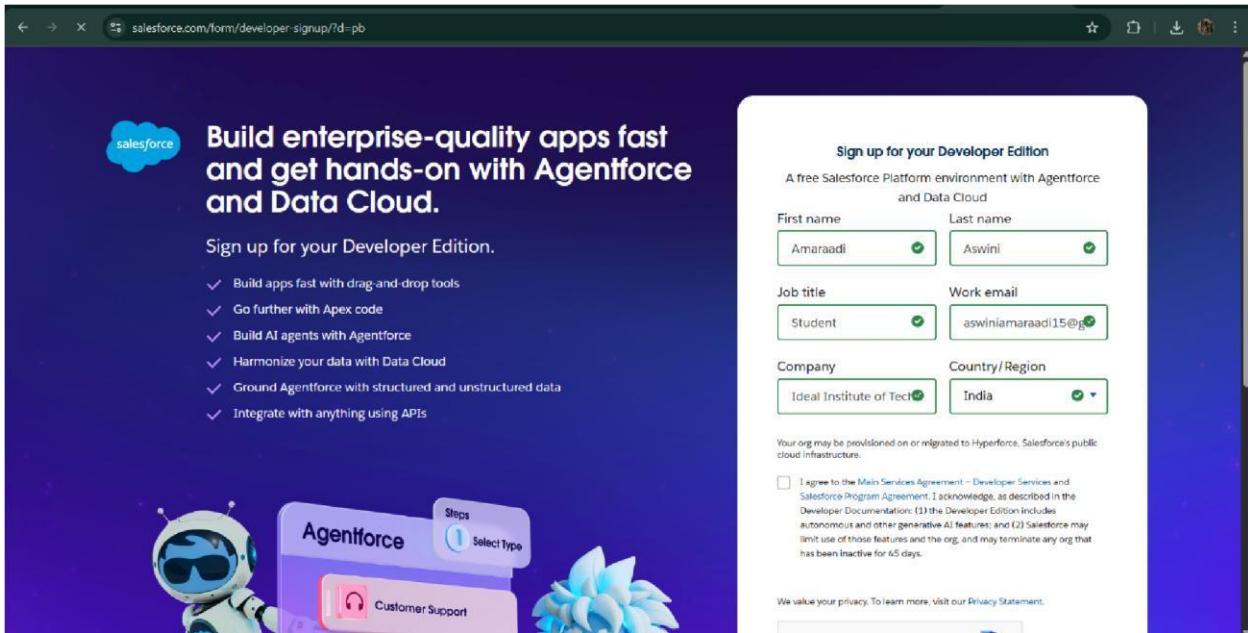
The Garage Management System project in Salesforce is designed to streamline vehicle servicing, repair tracking, and spare parts management. It enables garages to record customer details, monitor mechanic performance, and generate automated invoices. Through customized reports and dashboards, the system enhances operational efficiency, supports better decision-making, and improves overall customer satisfaction.

1.2 Purpose

The purpose of the Garage Management System in Salesforce is to simplify and automate garage operations, including service tracking, spare parts usage, billing, and customer management. It aims to provide accurate reports and dashboards for better monitoring, improve efficiency of mechanics, and enhance customer satisfaction through organized and timely services.

Creating Developer Account:

By using this URL - <https://orgfarm-f331f6164a-dev-ed.develop.lightning.force.com/lightning>



- Created objects: Customer Details, Appointment, Service records, Billing details and feedback

Customer Details

Details	Description	Enable Reports
API Name	Customer_Details__c	✓
Custom	✓	Track Activities
Singular Label	Customer Details	Track Field History
Plural Label	Customer Details	Deployment Status
		Deployed
		Help Settings
		Standard salesforce.com Help Window

Service records

Details

Description
API Name: Service_records_c
Custom
Singular Label: Service records
Plural Label: Service records

Enable Reports
✓
Track Activities
✓
Track Field History
✓
Deployment Status: Deployed
Help Settings: Standard salesforce.com Help Window

Billing details and feedback

Details

Description
API Name: ser_000_c
Custom
Singular Label: Billing details and feedback
Plural Label: Billing details and feedback

Enable Reports
✓
Track Activities
✓
Track Field History
✓
Deployment Status: Deployed
Help Settings: Standard salesforce.com Help Window

SETUP > OBJECT MANAGER
Appointment

Details

Description

API Name
Appointment_c

Singular Label
Appointment

Plural Label
Appointments

Enable Reports
✓

Track Activities
✓

Track Field History
✓

Deployment Status
Deployed

Help Settings
Standard salesforce.com Help Window

Edit Delete

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Cloud

Setup Home Object Manager

https://orgfarm-f331f6164a-dev-ed.lightning.force.com/one/one.app#/setup/Object...
27°C Mostly sunny

- Configured fields and relationships

SETUP > OBJECT MANAGER
Appointment

Fields & Relationships

13 items. Sorted by Field Label

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date	Appointment_Date_c	Date		
Appointment Name	Name	Auto Number		
Created By	CreatedBy	Lookup(User)	✓	
Customer Details	Customer_Details_c	Lookup(Customer Details)	✓	
Customer Name	Customer_Name_c	Lookup(Appointment)	✓	
Last Modified By	LastModifiedBy	Lookup(User)		
Maintenance service	Maintenance_service_c	Checkbox		
Owner	OwnerId	Lookup(User,Group)	✓	
Payment Paid	Payment_Paid_c	Currency(18, 0)		
Repairs	Repairs_c	Checkbox		

Quick Find New Deleted Fields Field Dependencies Set History Tracking

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Scoping Rules

Object Access

Cloud

Setup Home Object Manager

27°C Mostly sunny

The screenshot shows the Salesforce Object Manager interface. The top navigation bar includes tabs like Student, Fwd: Welcome to..., Recently Viewed, Appointment, SF Project Demo, SalesForce report, FINAL REPORT, and FINAL REPORT. Below the navigation is a toolbar with icons for Gmail, YouTube, Maps, and Developer Console. The main area displays the 'Appointment' object setup page under 'SETUP > OBJECT MANAGER'. The left sidebar lists various setup categories: 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, List View Button Layout, Restriction Rules, Scoping Rules, and Object Access. The right pane shows the 'Fields & Relationships' section with 13 items, sorted by Field Label. The table columns are FIELD LABEL, FIELD NAME, DATA TYPE, CONTROLLING FIELD, and INDEXED. The fields listed are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Appointment Date	Appointment_Date_c	Date		
Appointment Name	Name	Auto Number		✓
Created By	CreatedBy	Lookup(User)		
Customer Details	Customer_Details_c	Lookup(Customer Details)		✓
Customer Name	Customer_Name_c	Lookup(Appointment)		✓
Last Modified By	LastModifiedBy	Lookup(User)		
Maintenance service	Maintenance_service_c	Checkbox		
Owner	OwnerId	Lookup(User,Group)		✓
Payment Paid	Payment_Paid_c	Currency(18, 0)		
Repairs	Repairs_c	Checkbox		

The bottom of the screen shows a taskbar with weather information (27°C, Mostly sunny), a search bar, and various application icons. The system status bar indicates ENG IN, 12:10, and 08-09-2025.

Creating a Custom Tab

relevant tabs

Custom Tabs

You can create new custom tabs to extend Salesforce functionality or to build new application functionality.

Custom Object tabs look and behave like the standard tabs provided with Salesforce. Web tabs allow you to embed external web applications and content within the Salesforce window. Visualforce tabs allow you to embed Visualforce pages. Lightning Component tabs allow you to add Lightning components to the navigation menu in Lightning Experience and the mobile app. Lightning Page tabs allow you to add Lightning Pages to Lightning Experience and the mobile app.

Action	Label	Tab Style	Description
Edit Del	Appointments	Apple	
Edit Del	Billing details and feedback	Box	
Edit Del	Customer Details	Books	
Edit Del	Service records	Castle	

Web Tabs

No Web Tabs have been defined.

Visualforce Tabs

No Visualforce Tabs have been defined.

Lightning Component Tabs

No Lightning component tabs have been defined.

App Details & Branding

Give your Lightning app a name and description. Upload an image and choose the highlight color for its navigation bar.

App Details	App Branding
* App Name <small>i</small> Garage Management Application	Image <small>i</small> <input type="button" value="Upload"/> Primary Color Hex Value <small>i</small> #0070D2
* Developer Name <small>i</small> Garage_Management_Application	Org Theme Options <input type="checkbox"/> Use the app's image and color instead of the org's custom theme
Description <small>i</small> Enter a description...	

App Launcher Preview

GM Garage Management Appl...

VALIDATION RULES

DUPLICATE RULES

The screenshot shows the Salesforce Object Manager interface. The left sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, and Object Access. The main content area displays a Validation Rule for the 'Billing details and feedback' object. The rule is titled 'Billing details and feedback Validation Rule'. It has the following details:

Field	Value
Rule Name	rating_should_be_less_than_5
Error Condition Formula	NOT(REGEX(Rating_for_service__c , '[1-5][1]'))
Error Message	rating should be from 1 to 5
Description	
Created By	bevankishor.m, 8/28/2025, 4:41 AM
Active	✓
Error Location	Rating for service
Modified By	bevankishor.m, 8/28/2025, 4:41 AM

The status bar at the bottom shows weather (27°C, Mostly sunny), system icons, and the date/time (08-09-2025, 12:27).

PROFILE:

The screenshot shows the Salesforce Setup interface under the Profiles section. The Standard User profile is selected. The profile details include the name 'Standard User', user license 'Salesforce', and creation information ('Created By: salesforce.com, Inc., 8/24/2025, 2:50 PM'). The 'Profile Detail' section shows various assignments for different object layouts. A red box highlights the 'Global Layout' assignment for the Home Page Layout.

ROLES:

The screenshot shows the Salesforce Setup interface under the Roles section. The 'Creating the Role Hierarchy' page displays the organization's role hierarchy. The hierarchy starts with 'akashaya college of arts and science', which includes roles like 'CEO', 'CFO', 'COO', 'Manager', and 'sales person'. Further levels of the hierarchy are shown for 'Customer Support' and 'Human Resources' departments. A red box highlights the 'Add Role' button next to the 'CEO' role.

USERS:

All Users

Action	Full Name	Alias	Username	Role	Active	Profile
<input type="checkbox"/>	Chatter Expert	Chatter	chatty_00dg000005vhcmua.u.y3deufoefch@chatter.salesforce.com		<input checked="" type="checkbox"/>	Chatter Free User
<input type="checkbox"/>	dcvs_dcword	dcvs	231beavan2ar@acascbe.edu.in		<input checked="" type="checkbox"/>	sales person
<input type="checkbox"/>	dbyv_dbyv	dbyv	231beavan_kishar@acascbe.edu.in		<input checked="" type="checkbox"/>	Chatter External User
<input type="checkbox"/>	OEPC_OrgFarm	OEPC	epic.b09493650ed@orgfarm.salesforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/>	m_beavankishor	23c	23cshevan_kishar@agentforce.com		<input checked="" type="checkbox"/>	System Administrator
<input type="checkbox"/>	Mikaelson_Niklaus	nmika	beavankishor@acascbe.com	Manager	<input checked="" type="checkbox"/>	Manager
<input type="checkbox"/>	User_Integration	Integ	integration@00dg000005vhcmua.u.com		<input checked="" type="checkbox"/>	Analytics Cloud Integration User
<input type="checkbox"/>	User_Security	sec	insightssecurity@00dg000005vhcmua.com		<input checked="" type="checkbox"/>	Analytics Cloud Security User

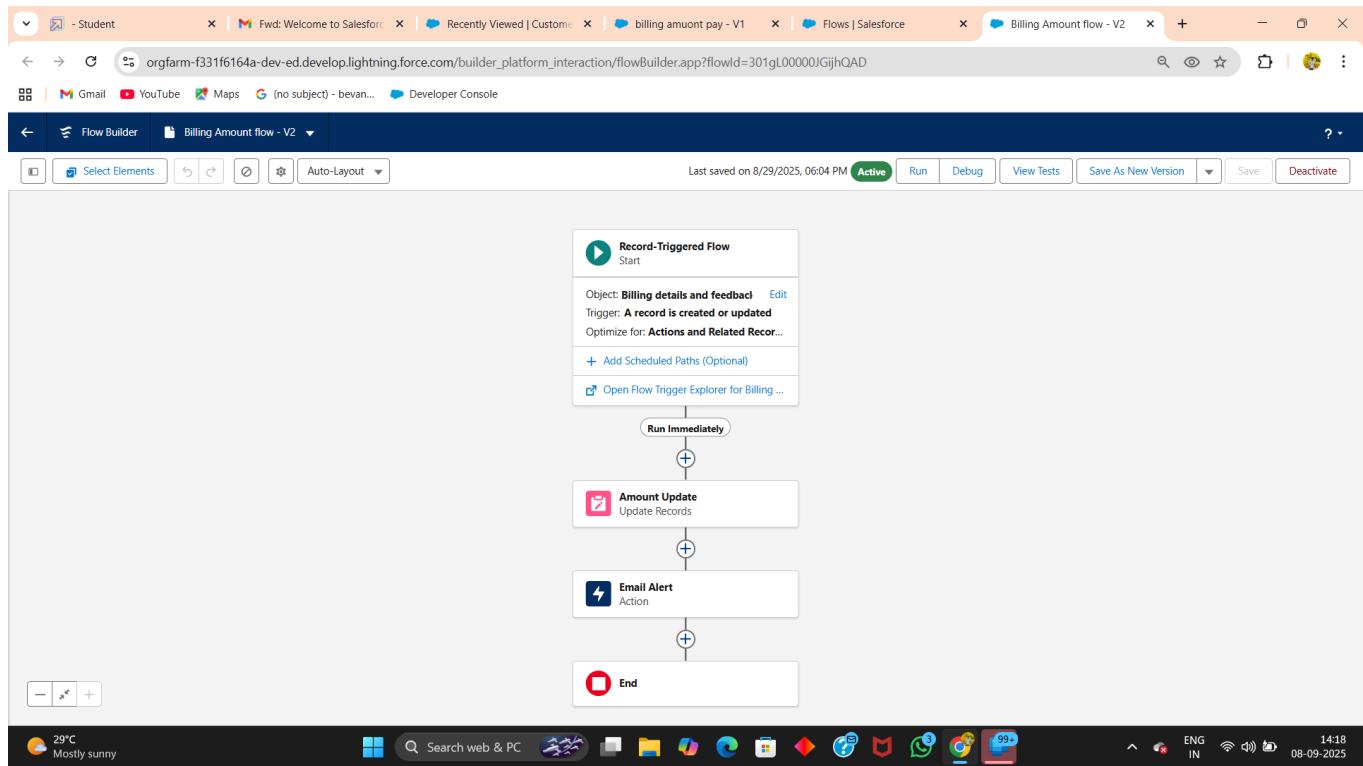
PUBLIC GROUP:

Public Groups

Action	Label	Group Name	Created By	Created Date
<input type="checkbox"/>	Edit Del	sales_team	m.beavankishor	8/28/2025, 6:37 AM

Sharing Setting:

- Implemented Flows for monthly rent and payment success



Apex:

Student - orgfarm-f331f6164a-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

Developer Console | Flows | Salesforce | Billing Amount flow - V1 | Billing Amount flow - V2

```
AmountDistributionHandler.apxc
```

```
Code Coverage: None | API Version: 64 | Go To
```

```
1 public class AmountDistributionHandler {
2
3
4
5     public static void amountDist(list<Appointment__c> listApp){
6
7         list<Service_records__c> serList = new list <Service_records__c>();
8
9
10        for(Appointment__c app : listApp){
11
12            if(app.Maintenance_service__c == true && app.Repairs__c == true && app.Replacement_Parts__c == true){
13
14                app.Service_Amount__c = 10000;
15
16            }
17        }
18    }
19}
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size

Filter Click here to filter the log list

29°C Mostly sunny Search web & PC 14:21 08-09-2025

Student - orgfarm-f331f6164a-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

Developer Console | Flows | Salesforce | Billing Amount pay - V1 | Billing Amount flow - V2

```
AmountDistributionHandler.apxc | AmountDistribution.apxt
```

```
Code Coverage: None | API Version: 64 | Go To
```

```
1 trigger AmountDistribution on Appointment__c (before insert, before update) {
2
3
4
5     if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
6
7         AmountDistributionHandler.amountDist(trigger.new);
8
9
10    }
11
12
13
14
15 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size

Filter Click here to filter the log list

29°C Mostly sunny Search web & PC 14:21 08-09-2025

Reports:

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Garage Management Folder | S" and displays the "Garage Management Folder" in the "Reports" section of a Salesforce org. The URL in the address bar is <https://orgfarm-f331f6164a-dev-ed.lightning.force.com/lightning/r/Folder/00lgL000003wa1NQAO/view?queryScope=userFolders>. The page header includes links for "Customer Details", "Appointments", "Service records", "Billing details and feedback", "Reports", and "Dashboards". On the left, a sidebar menu under "Reports" shows "Recent", "Created by Me", "Private Reports", "Public Reports", and "All Reports". Under "FOLDERS", "All Folders" is selected, showing "Created by Me" and "Shared with Me". The main content area shows a table with one item: "New Service information Report" in the "Garage Management Folder" created by "bevankishor m" on "8/29/2025, 4:07 AM". The browser's taskbar at the bottom shows various pinned icons and the date "08-09-2025".

Screenshot of the Salesforce Setup page showing the creation of a custom report type named "Service information1".

Left Sidebar:

- Feature Settings
- Analytics
- Reports & Dashboards
 - Access Policies
 - Historical Trending
 - Report Types** (selected)
 - Reporting Snapshots
 - Reports and Dashboards
 - Settings
- Guest User Sharing Rule Access Report

Did you find what you're looking for?
Try using Global Search.

Details Panel:

Display Label: Service information1
API Name: Service_information1
Description: Note: Description will be visible to users who create reports.
Created By: bevankishor m, 08/09/2025, 02:32 pm
Store in Category: other
Deployment Status: Deployed
Modified By: bevankishor m, 08/09/2025, 02:32 pm

Fields Panel:

Source Object	Included Fields
Customer Details	11
Appointments	15
Service records	11

Object Relationships Panel:

Customer Details (A) with at least one related record from Appointments (B)
 B with at least one related record from Service records (C)
 C with at least one related record from Billing details and feedback (D)

Bottom Bar:

29°C Mostly sunny | Search web & PC | ENG IN | 08-09-2025 | 14:33

Screenshot of the Salesforce Report Builder interface for a "New Service information Report".

Top Navigation:

- Fwd: Welcome to Salesforce
- Student
- Report Builder | Salesforce
- Garage Management Folder
- Report Types | Salesforce
- Billing Amount flow - V2

Left Sidebar (Fields):

- REPORT ▾
- New Service information Report ▾
- Service information
- Outline
- Filters
- Groups
 - GROUP ROWS
 - Add group...
- Rating for service
- GROUP COLUMNS
 - Add group...
- Payment Status
- Columns
 - Add column...
- Customer Name: Appointment Nar
- Appointment Date
- Service Status
- # Payment Paid

No records returned in preview. Try running the report or editing report filters.

Details (0 Rows) Click an intersection in the table above to filter details.

Customer Name: Appointment Name	Appointment Date	Service Status	Payment Paid
---------------------------------	------------------	----------------	--------------

Row Counts Detail Rows Grand Total Stacked Summaries Conditional Formatting

Bottom Bar:

29°C Mostly sunny | Search web & PC | ENG IN | 08-09-2025 | 14:38

Fwd: Welcome to Salesforce - Student | Recent | Dashboards | Sales | Garage Management Folder | Report Types | Salesforce | Billing Amount flow - V2 | +

orgfarm-f331f6164a-dev-ed.develop.lightning.force.com/lightning/o/

Recent | Dashboards | Sales | Garage Management Folder | Report Types | Salesforce | Billing Amount flow - V2 | +

Gmail YouTube Maps (no subject) - bevan... Developer Console

Garage Management... Customer Details Appointments Service records Billing details and feedback Reports Dashboards

Search...

Dashboards

Recent

2 items

DASHBOARDS	Dashboard Name	Description	Folder	Created By	Created On	Subscribed
Recent	Service Rating dashboard	Service Rating dashboard	bevankishor m	8/28/2025, 11:20 PM	✓	▼
Created by Me	customer review	Service Rating dashboard	bevankishor m	8/28/2025, 11:47 PM	✓	▼

Customer Details Appointments Service records Billing details and feedback Reports Dashboards

Search recent dashboards... New Dashboard New Folder

29°C Mostly sunny Search web & PC 08-09-2025 14:41 ENG IN

Fwd: Welcome to Salesforce - Student | Recently Viewed | Customer Details | Recently Viewed | Customer Details | Report Types | Salesforce | Billing Amount flow - V2 | +

orgfarm-f331f6164a-dev-ed.develop.lightning.force.com/lightning/o/Customer_Details_c/list?filterName=_Recent

Recently Viewed | Customer Details | Recently Viewed | Customer Details | Report Types | Salesforce | Billing Amount flow - V2 | +

Gmail YouTube Maps (no subject) - bevan... Developer Console

Garage Management... Customer Details Appointments Service records Billing details and feedback Reports Dashboards

Search...

Customer Details

Recently Viewed

6 items • Updated a few seconds ago

Customer Details Name	Actions
1 mac	edit
2 VP of Services	edit
3 bevankishorj	edit
4 tgdqudb	edit
5 JEEVITHA	edit
6 GF BX BX	edit

Customer Details Appointments Service records Billing details and feedback Reports Dashboards

New Import Change Owner Assign Label

Search this list...

29°C Mostly sunny Search web & PC 08-09-2025 14:42 ENG IN

ADVANTAGES & DISADVANTAGES

✓ Advantages

- Automates garage operations like billing, service tracking, and inventory.**
 - Provides real-time reports and dashboards for better decision-making.**
 - Improves mechanic productivity and customer satisfaction.**
 - Reduces errors in manual record keeping.**
 - Scalable and customizable within Salesforce.**
-

⚠ Disadvantages

- Requires proper Salesforce setup and customization skills.**
- Internet dependency – cannot work offline.**
- Initial implementation and licensing may be costly.**
- Staff need training to use the system effectively.**

CONCLUSION

“The Garage Management System in Salesforce provides an efficient and reliable platform to manage garage operations. By integrating service tracking, inventory management, and reporting into one system, it reduces manual effort and enhances decision-making. Although it requires investment and training, the long-term benefits of improved productivity, accuracy, and customer satisfaction make it a valuable solution for modern garage businesses.”

APPENDIX

Syntax For creating trigger :

The syntax for creating trigger is :

Trigger [trigger name] on [object name](Before/After event)

```
{  
}
```

```
trigger AmountDistribution on Appointment__c (before insert, before update) {
```

```
    if(trigger.isbefore && trigger.isinsert || trigger.isupdate){
```

```
        AmountDistributionHandler.amountDist(trigger.new);
```

```
}
```

```
}
```