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BCA 506:- LAB ON CLOUD COMPUTING APPLICATIONS

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| 2. | Installation and configuration of just cloud. | | |
| 3. | Implementing virtual machines with VirtualBox. | | |
| 4. | Setting up a cloud Environment with OpenStack. | | |
| 5. | Setting up a simple website on GitHub. | | |
| 6. | Introduction to cloud CRM (salesforce). | | |
| 7. | Data Analytics on the cloud (salesforce). | | |
| 8. | Introduction to Amazon AWS S3. | | |

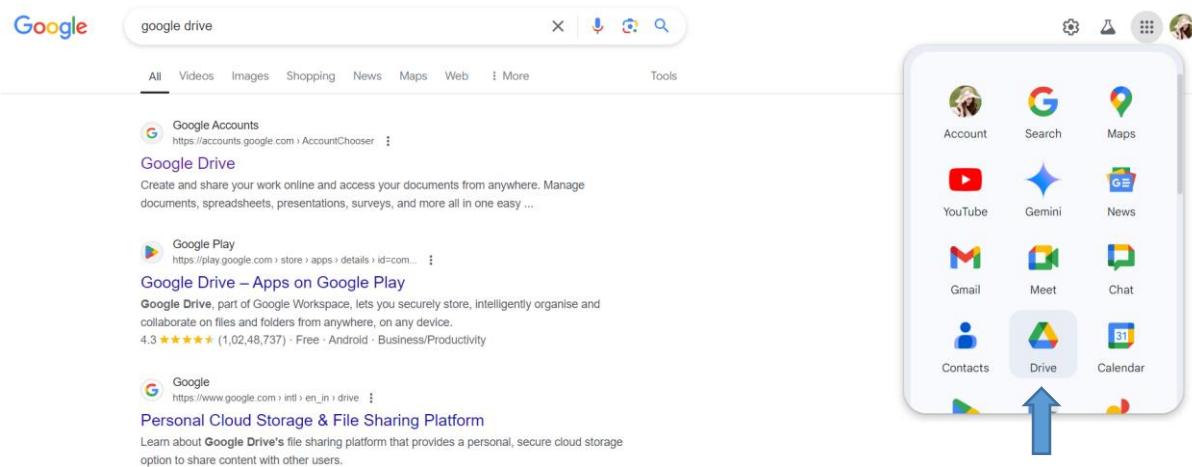
Practical no:-1

Practical Name:- Working on Google Drive to make Spreadsheet and notes.

A) create spreadsheet

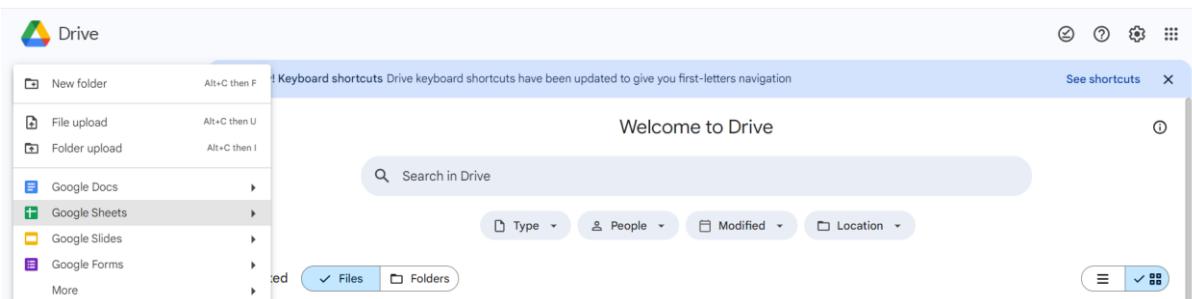
- **Open Google Drive:**

- Go to [Google Drive](#) and log in with your Google account.



- **Create a New Spreadsheet:**

- On the left-hand side, click on the **New** button.
- From the drop-down menu, choose **Google Sheets**.



- **Work on the Spreadsheet:**

- Google Sheets will open in a new tab.
- You can start adding data, applying formulas, creating charts, and more, just like in any spreadsheet tool.
- Your changes will automatically be saved in real-time to your Google Drive.

- **Step 2:** Click on a cell and start typing to enter data:

A screenshot of a Google Sheets document titled "Untitled spreadsheet". The sheet contains a table with 17 rows of data. The columns are labeled: Sr.no, Student Name, Machine learning, Cyber security, Matrix algebra, Cloud computing, Java programming, Total, Percentage, and Grade. The data includes names like Ritika, Rohit, Anushka, etc., and their scores across four subjects. The last three columns show calculated totals and percentages, and the final column shows grades (C, A, D, etc.). The cursor is positioned at cell A20.

| STUDENT MARKSHEET | | | | | | | | | |
|-------------------|--------------|------------------|----------------|----------------|-----------------|------------------|-------|------------|-------|
| Sr.no | Student Name | Machine learning | Cyber security | Matrix algebra | Cloud computing | Java programming | Total | Percentage | Grade |
| 1 | Ritika | 45 | 52 | 65 | 45 | 47 | 254 | 50.80 | C |
| 2 | Rohit | 87 | 84 | 66 | 84 | 49 | 370 | 74.00 | A |
| 3 | Anushka | 54 | 59 | 48 | 62 | 25 | 248 | 49.60 | D |
| 4 | Virat | 68 | 78 | 89 | 95 | 99 | 429 | 85.80 | A+ |
| 5 | Natasa | 57 | 57 | 97 | 49 | 48 | 308 | 61.60 | B |
| 6 | Hardil | 65 | 98 | 57 | 65 | 65 | 350 | 70.00 | A |
| 7 | Devisha | 57 | 25 | 68 | 48 | 50 | 248 | 49.60 | D |
| 8 | Suryakumar | 89 | 38 | 89 | 68 | 94 | 378 | 75.60 | A |
| 9 | Sanjana | 98 | 64 | 57 | 49 | 25 | 293 | 58.60 | C |
| 10 | Jasprit | 25 | 28 | 48 | 67 | 35 | 203 | 40.60 | D |
| 11 | Anubhuti | 76 | 69 | 85 | 79 | 99 | 408 | 81.60 | A+ |
| 12 | Piyush | 30 | 35 | 0 | 45 | 25 | 135 | 27.00 | Fail |
| 13 | Dipika | 45 | 69 | 89 | 45 | 55 | 303 | 60.60 | B |
| 14 | Dinesh | 79 | 66 | 74 | 88 | 99 | 406 | 81.20 | A+ |
| 15 | Nita | 40 | 70 | 89 | 45 | 25 | 269 | 53.80 | C |

- **Name and Organize the Sheet:**
- Click on the **Untitled Spreadsheet** text at the top left to rename your sheet.
- You can also organize your file by placing it in folders within Google Drive.

A screenshot of a Google Sheets document titled "cloud 1st practical". The sheet contains the same data as the previous screenshot, a student marksheet. The columns are labeled: Sr.no, Student Name, Machine learning, Cyber security, Matrix algebra, Cloud computing, Java programming, Total, Percentage, and Grade. The data includes names like Ritika, Rohit, Anushka, etc., and their scores across four subjects. The last three columns show calculated totals and percentages, and the final column shows grades (C, A, D, etc.). The cursor is positioned at cell A20.

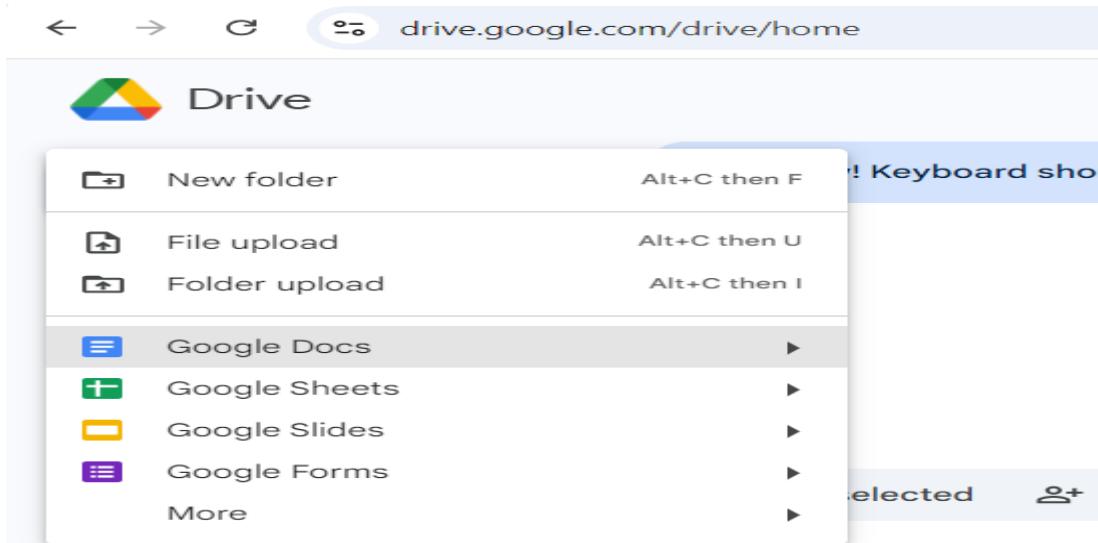
| STUDENT MARKSHEET | | | | | | | | | |
|-------------------|--------------|------------------|----------------|----------------|-----------------|------------------|-------|------------|-------|
| Sr.no | Student Name | Machine learning | Cyber security | Matrix algebra | Cloud computing | Java programming | Total | Percentage | Grade |
| 1 | Ritika | 45 | 52 | 65 | 45 | 47 | 254 | 50.80 | C |
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| 4 | Virat | 68 | 78 | 89 | 95 | 99 | 429 | 85.80 | A+ |
| 5 | Natasa | 57 | 57 | 97 | 49 | 48 | 308 | 61.60 | B |
| 6 | Hardil | 65 | 98 | 57 | 65 | 65 | 350 | 70.00 | A |
| 7 | Devisha | 57 | 25 | 68 | 48 | 50 | 248 | 49.60 | D |
| 8 | Suryakumar | 89 | 38 | 89 | 68 | 94 | 378 | 75.60 | A |
| 9 | Sanjana | 98 | 64 | 57 | 49 | 25 | 293 | 58.60 | C |
| 10 | Jasprit | 25 | 28 | 48 | 67 | 35 | 203 | 40.60 | D |
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B) Creating Notes (Google Docs)

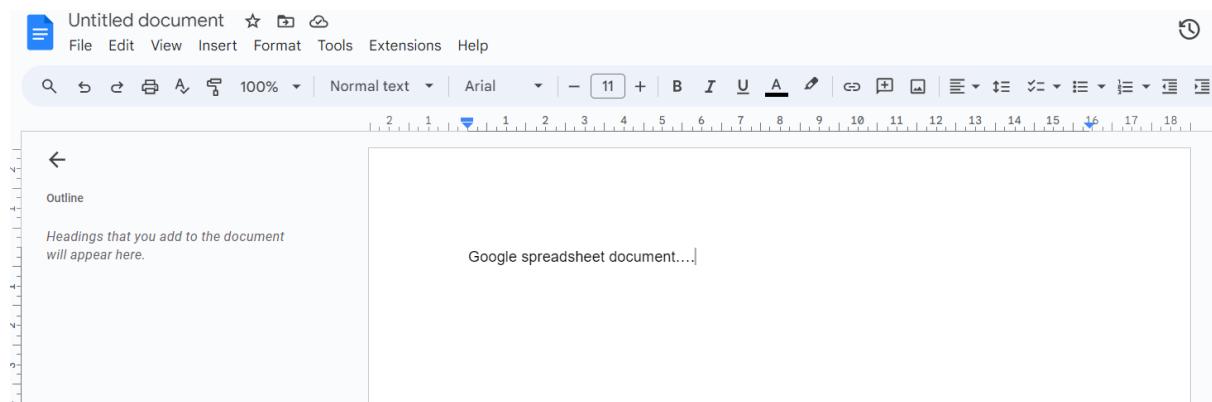
Using Google Docs for Notes:

1. Open Google Drive:

- Again, start by going to [Google Drive](#) and logging in.
- Click on the **New** button on the left-hand side.
- Select **Google Docs** from the drop-down menu.



- A new document will open in a separate tab.
- Start typing your notes. Google Docs allows for more formatting options, such as headings, bullet points, images, tables, and more.



2. Organize and Share:

- Name the document by clicking on **Untitled Document** at the top.

The screenshot shows a Google Docs document titled "cloud notes". The content of the document is a section titled "What Is Cloud Computing?" with the following text:

Cloud computing is the on-demand access of computing resources—physical servers or virtual servers, data storage, networking capabilities, application development tools, software, AI-powered analytic tools and more—over the internet with pay-per-use pricing.

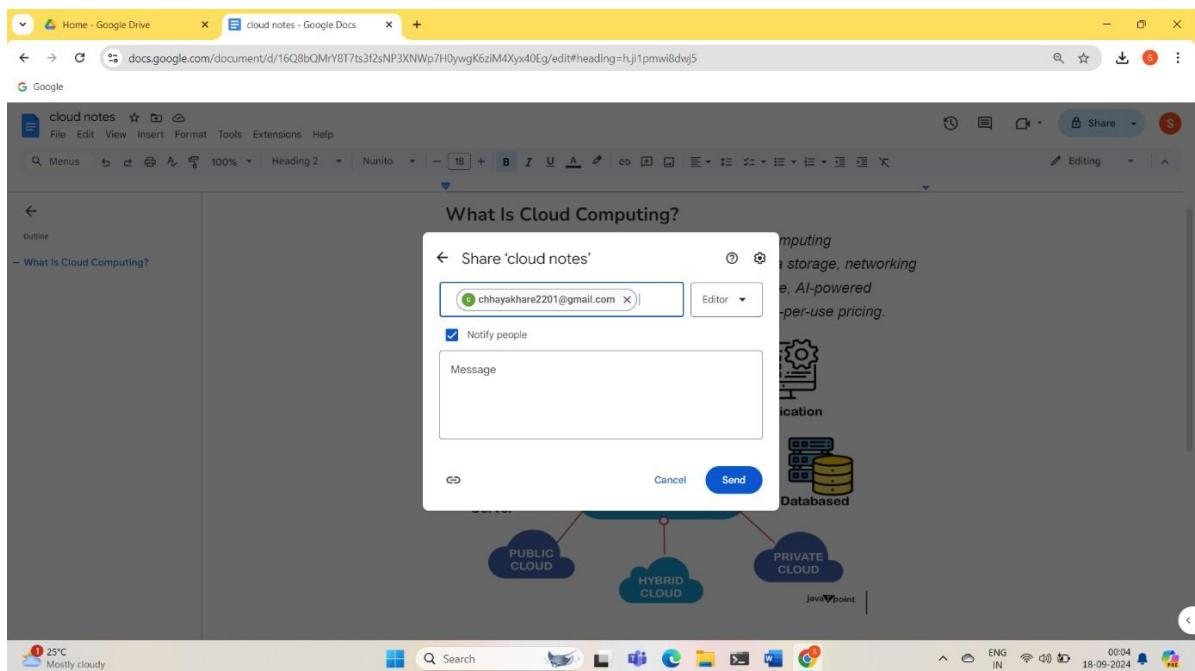
Below the text is a diagram titled "CLOUD COMPUTING" in the center. It features a central blue cloud icon with various icons connected to it: "Storage" (file folder), "Mobile" (phone), "Application" (monitor with gear), "Server" (server rack), "Databased" (database server), "PUBLIC CLOUD" (blue cloud), "HYBRID CLOUD" (blue cloud), and "PRIVATE CLOUD" (blue cloud). The status bar at the bottom shows the date as 18-09-2024 and the time as 00:05.

3. Google Docs automatically saves your work as you type. You can see the status at the top where it says “All changes saved in Drive.”, Click the “Share” button in the top right corner. Enter the email addresses of the people you want to share it with, add set their permission (View , Comment , or edit):

The screenshot shows the "Share 'cloud notes'" dialog box in Google Docs. The dialog box contains the following fields:

- Recipient: chhayakhare2201@gmail.com (Editor)
- Notify people: checked
- Message: (empty text area)
- Buttons: Cancel and Send

Below the dialog box is the main content of the Google Docs document, which includes the "What Is Cloud Computing?" section and the cloud computing diagram from the previous screenshot. The status bar at the bottom shows the date as 18-09-2024 and the time as 00:04.



Practical no:-2

Practical name:- Installation and configuration of justcloud.

Step 1:-

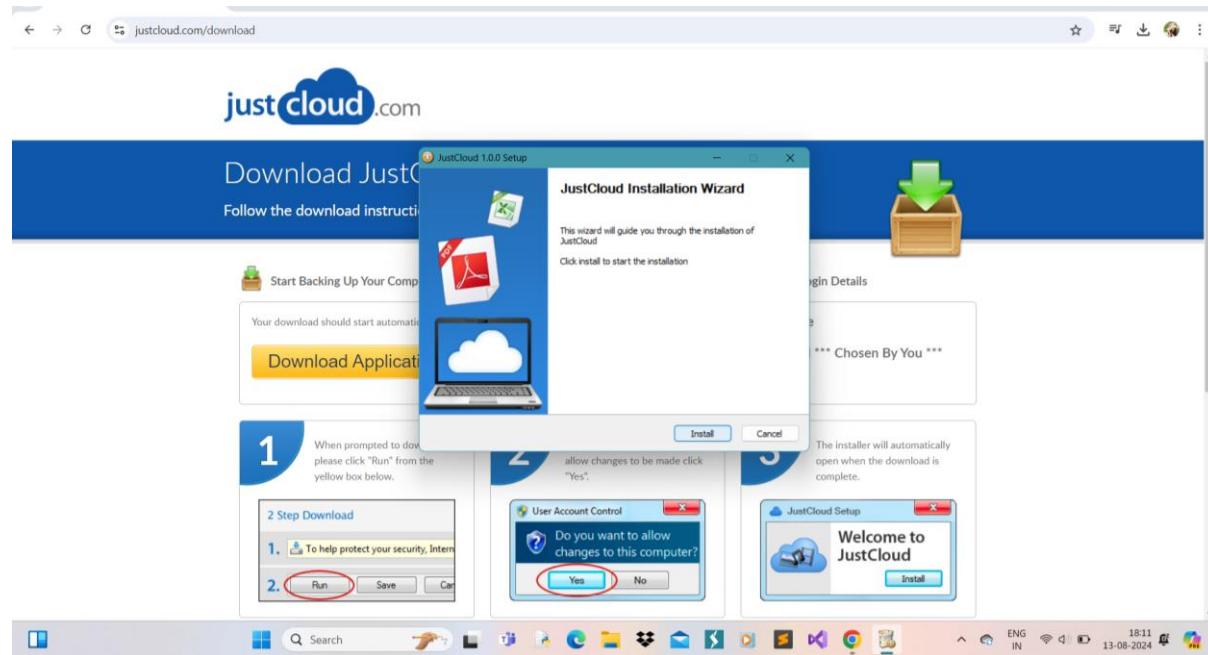
- Visit the Official Website:

- Go to the JustCloud website.

Step 2:-

- Download the Installer:

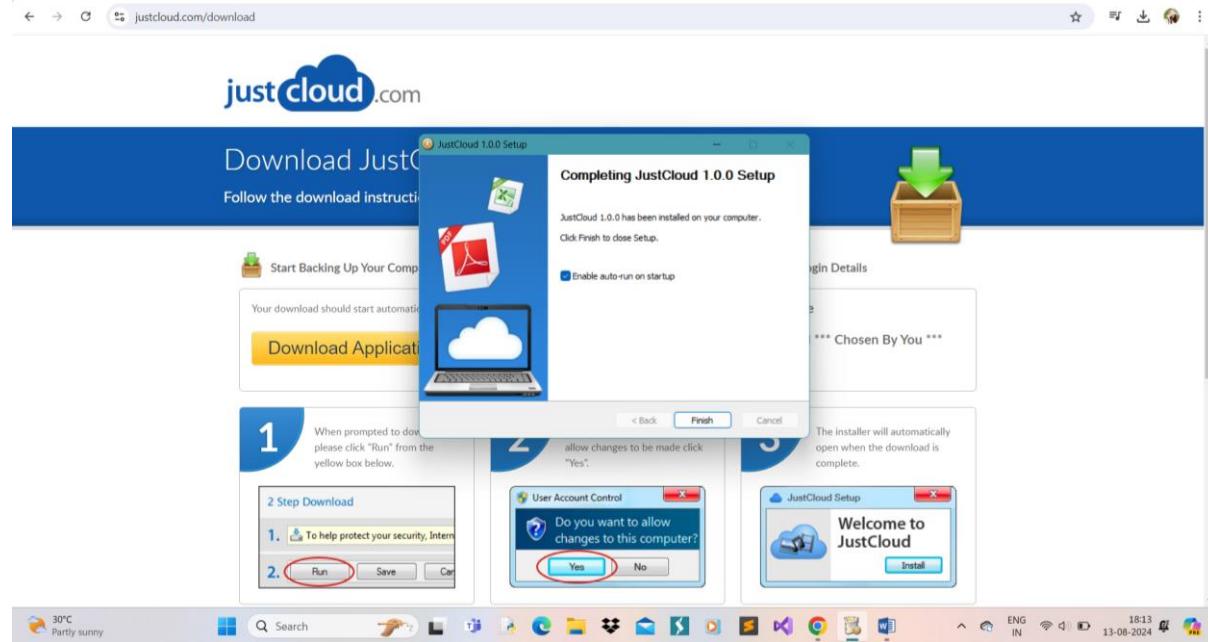
- Look for the download link or button, usually labeled "Download Now" or "Start Download." This should automatically download the JustCloud installer.



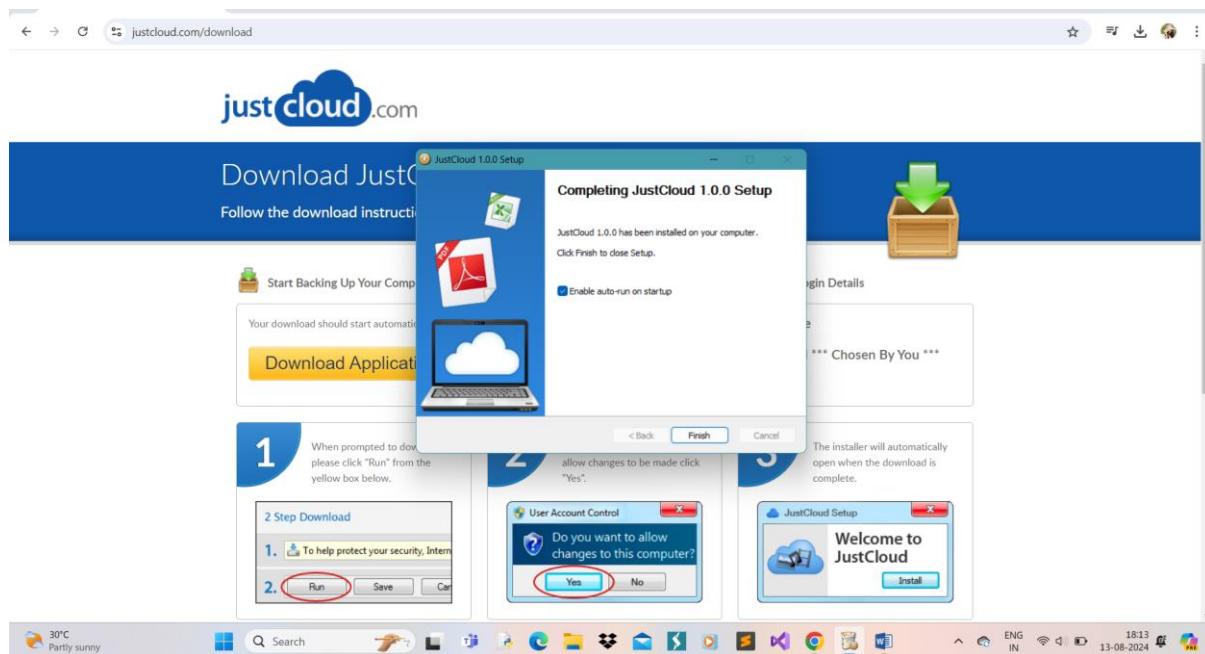
Step 3:-

- **Run the Installer:**

- Once downloaded, locate the installer file (usually in your "Downloads" folder) and double-click it to run.
- Follow the on-screen instructions to install the software on your computer.



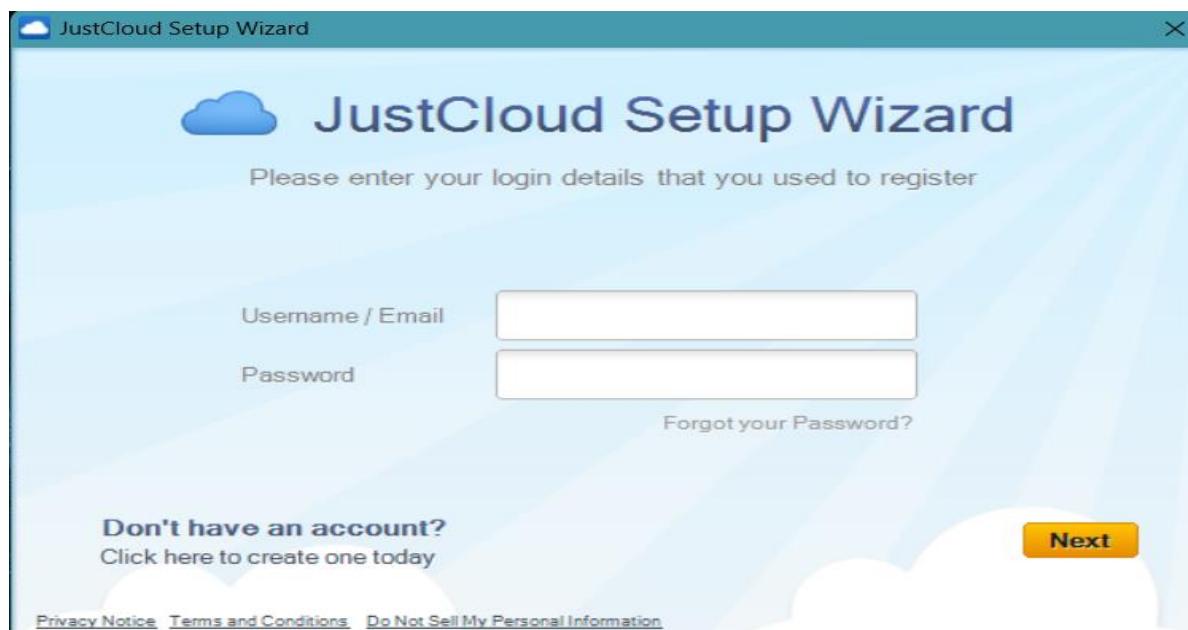
- Wizard would install all the files necessary automatically and click on “Finish” button..



Step 4:-

- **Login/Sign Up:**

- After installation, launch the JustCloud application. You may need to log in with your JustCloud account credentials or sign up for a new account if you don't have one.



JustCloud Setup Wizard X

JustCloud Account Creation

Enter your details to create your 1GB Free Account

Name:

Email:

Password:

I do not want to receive marketing emails

I agree to the Terms and Conditions and acknowledge receipt of the Privacy Notice.

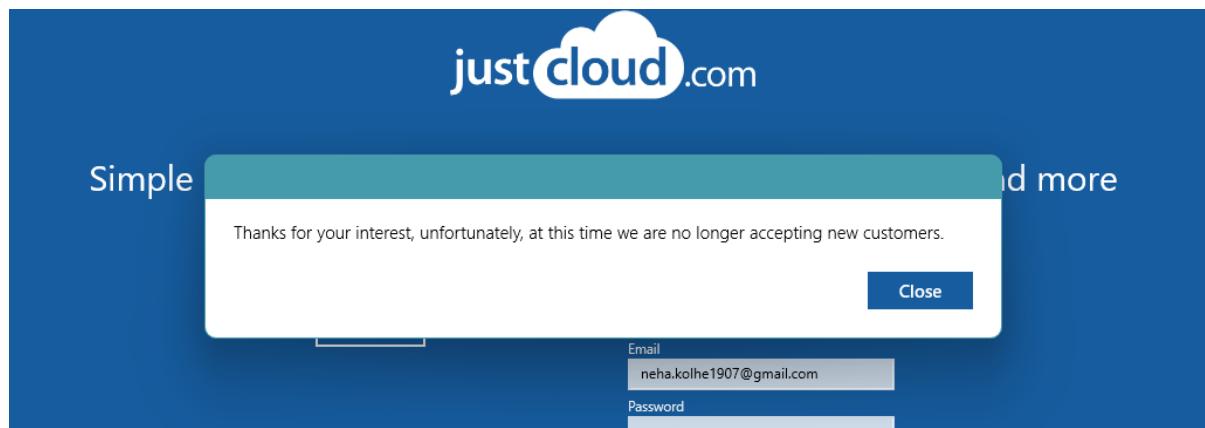
By creating an account, I agree to my personal information being transferred and stored in the United States in order for JustCloud to provision my account.

Already have an account? [Log In](#)

Creating your JustCloud account **Next**

[Privacy Notice](#) [Terms and Conditions](#) [Do Not Sell My Personal Information](#)

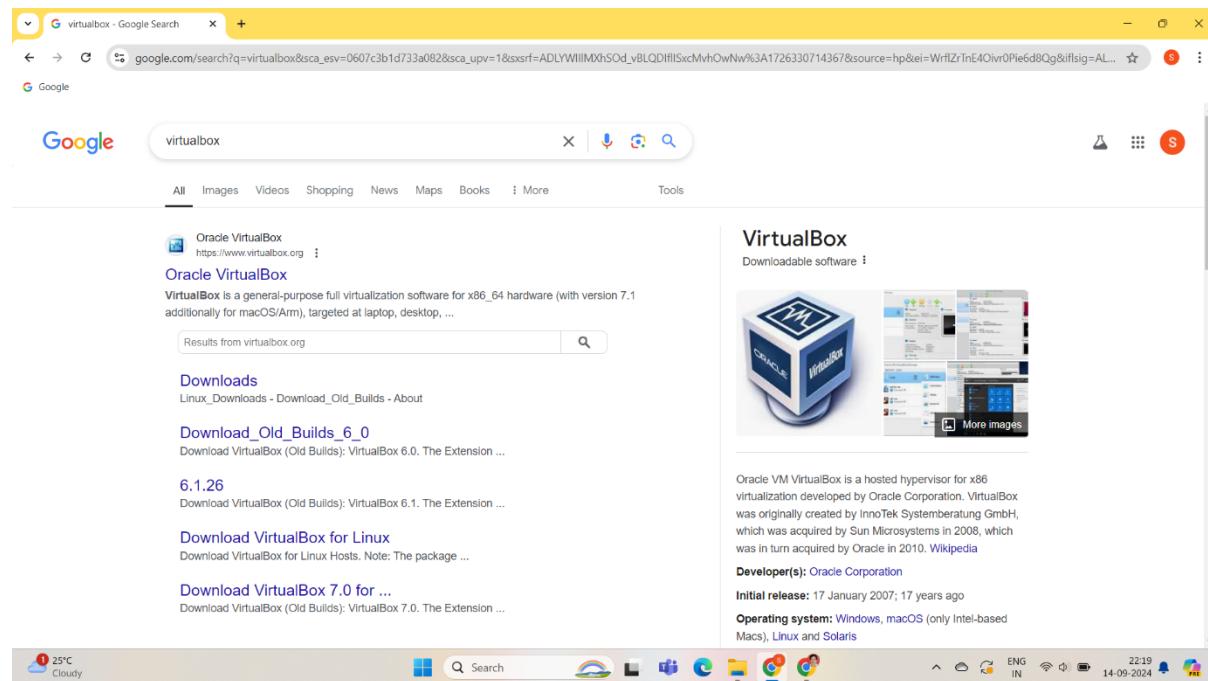
Step 5: oops!! Seems like justcloud dosen't want to accept any new customers....



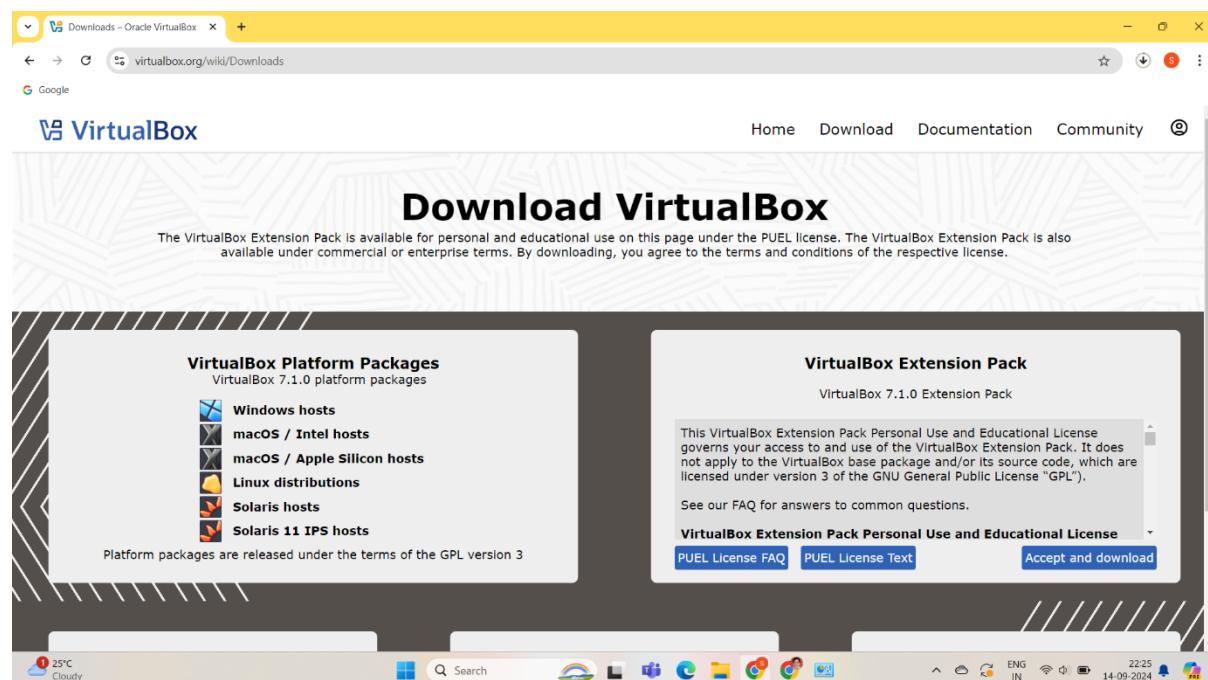
Practical no:-3

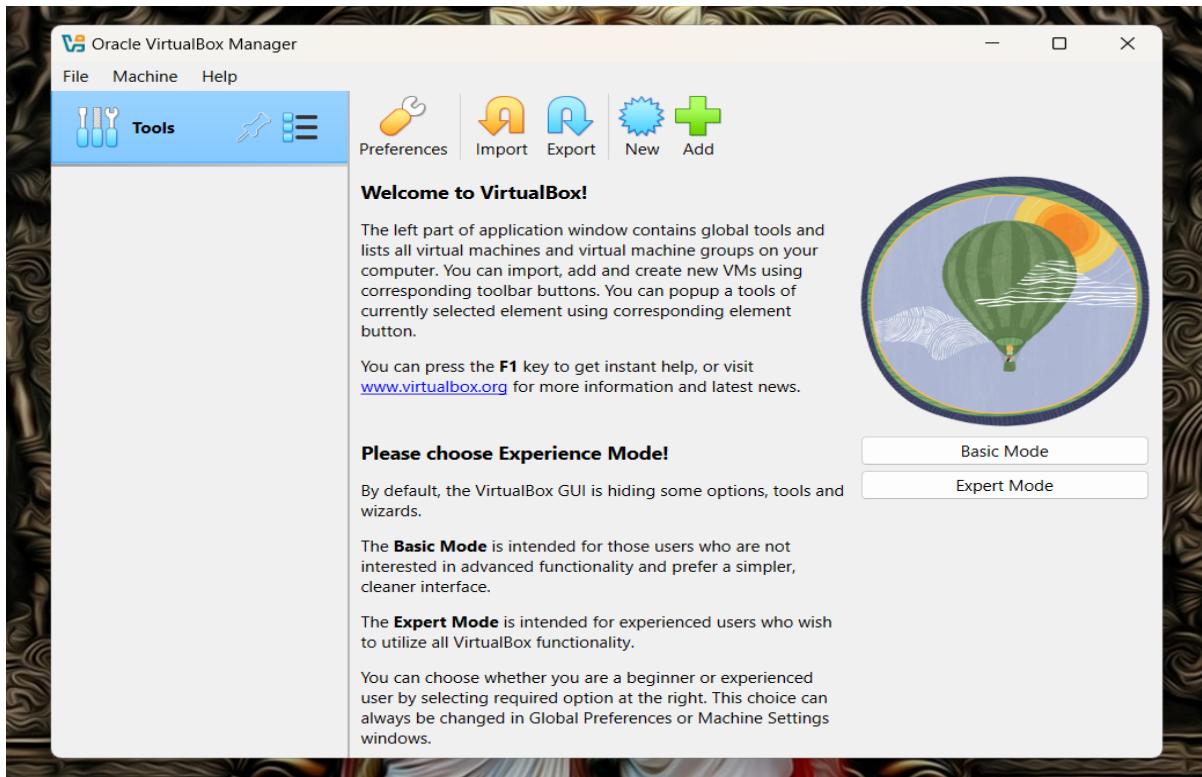
Practical name:- Implementing Virtual Machines with VirtualBox.

Step 1:- Search for “VirtualBox” on a browser:



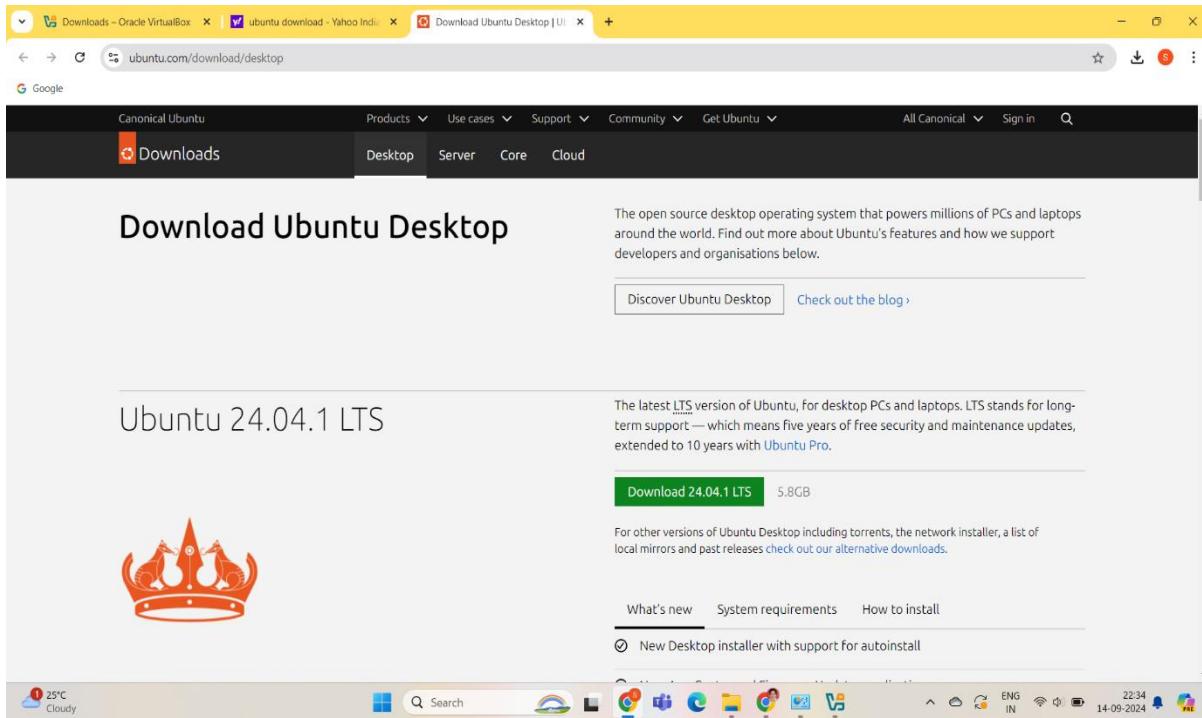
Step 2:- Download the VirtualBox for your respective OS:



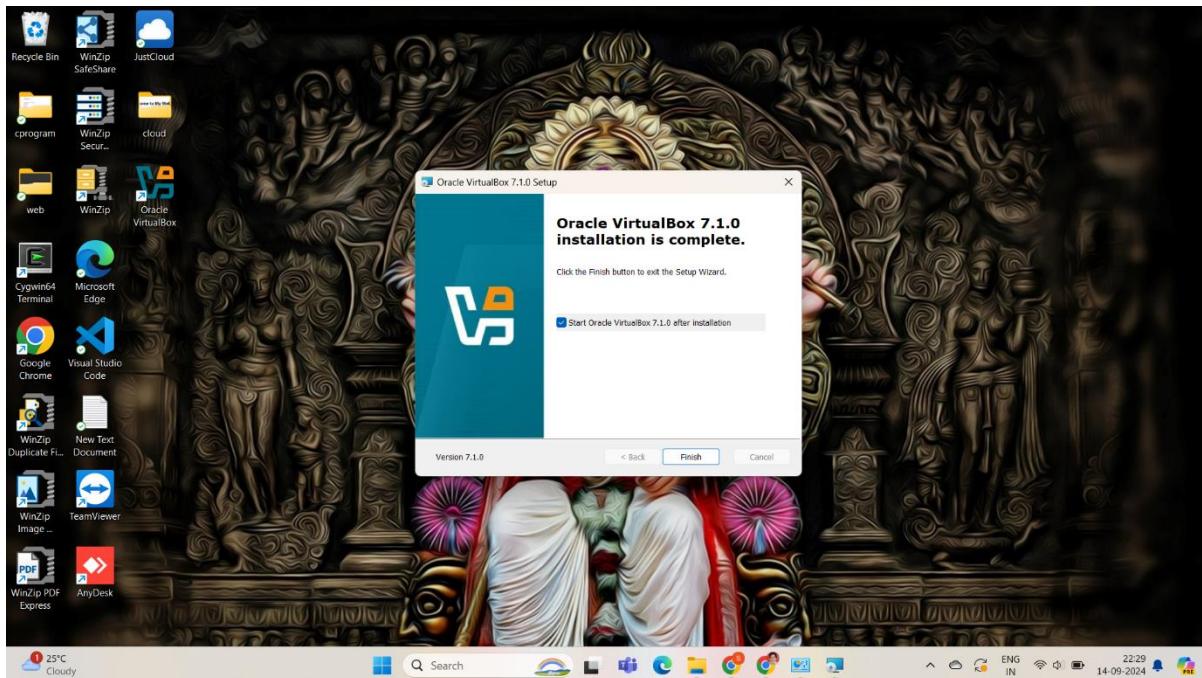


Step 3:-Search for ISO file of the OS you want to install and download it:

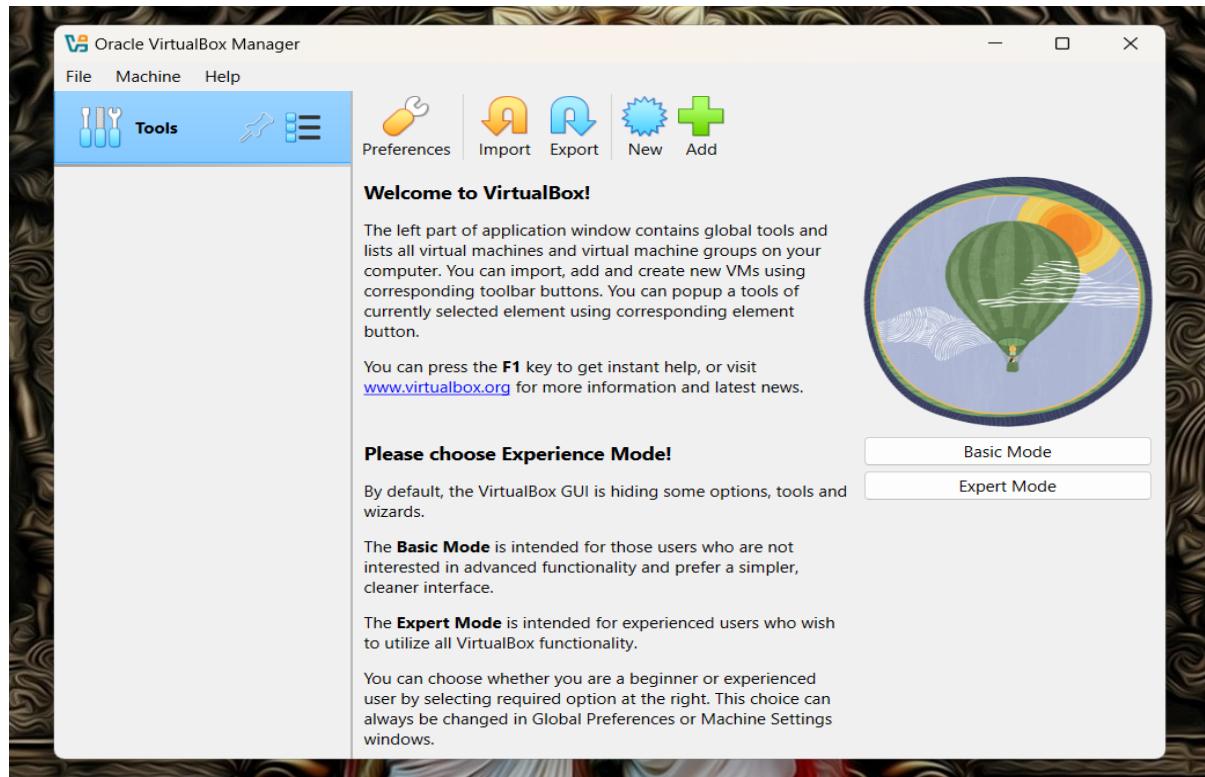
A screenshot of a web browser window. The address bar shows "in.search.yahoo.com/search?fr=mcafee&type=E210IN85G0&p=ubuntu+download". The search query "ubuntu download" is entered in the search bar. The results page from Yahoo search shows various links related to Ubuntu, including "Download Ubuntu Desktop", "Install Ubuntu Desktop", and "Ubuntu 22.04.5 LTS (Jamm...)".



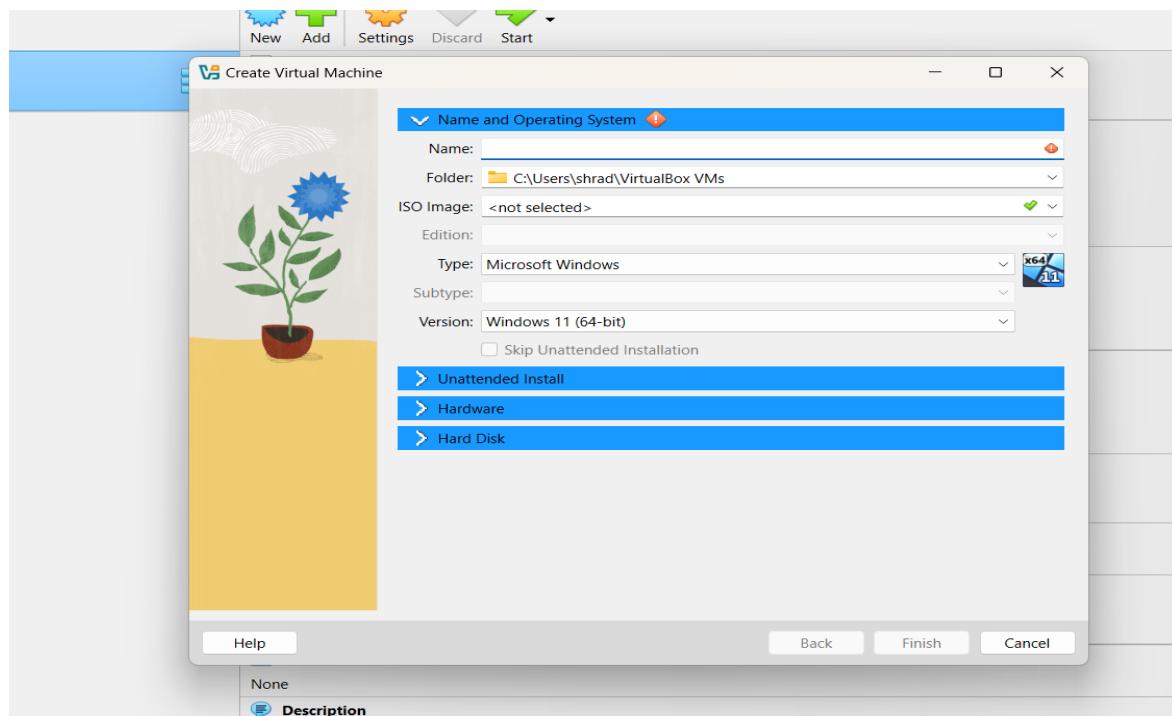
Step 4:-Install the VirtualBox (do not change anything in the installation wizard):



Step 5:- Open the VirtualBox and click on the “machine” button on top left:

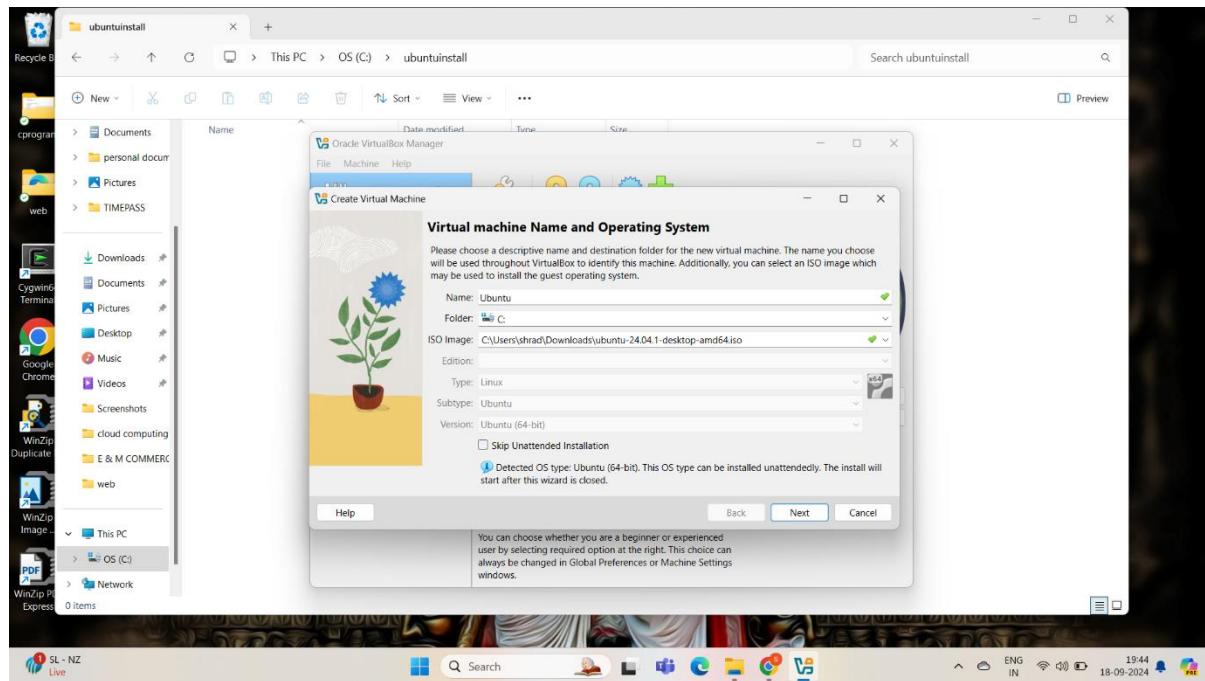


Step 6:- Click on the “New” button:

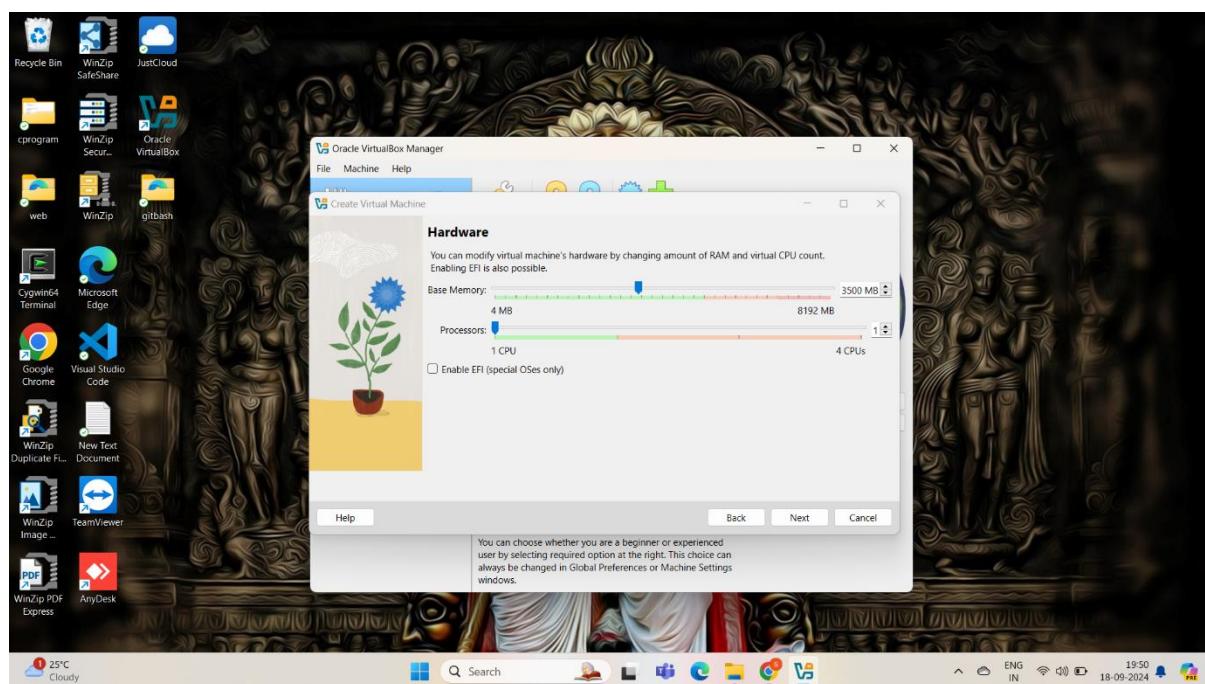


Step 7:-Name your VM add:

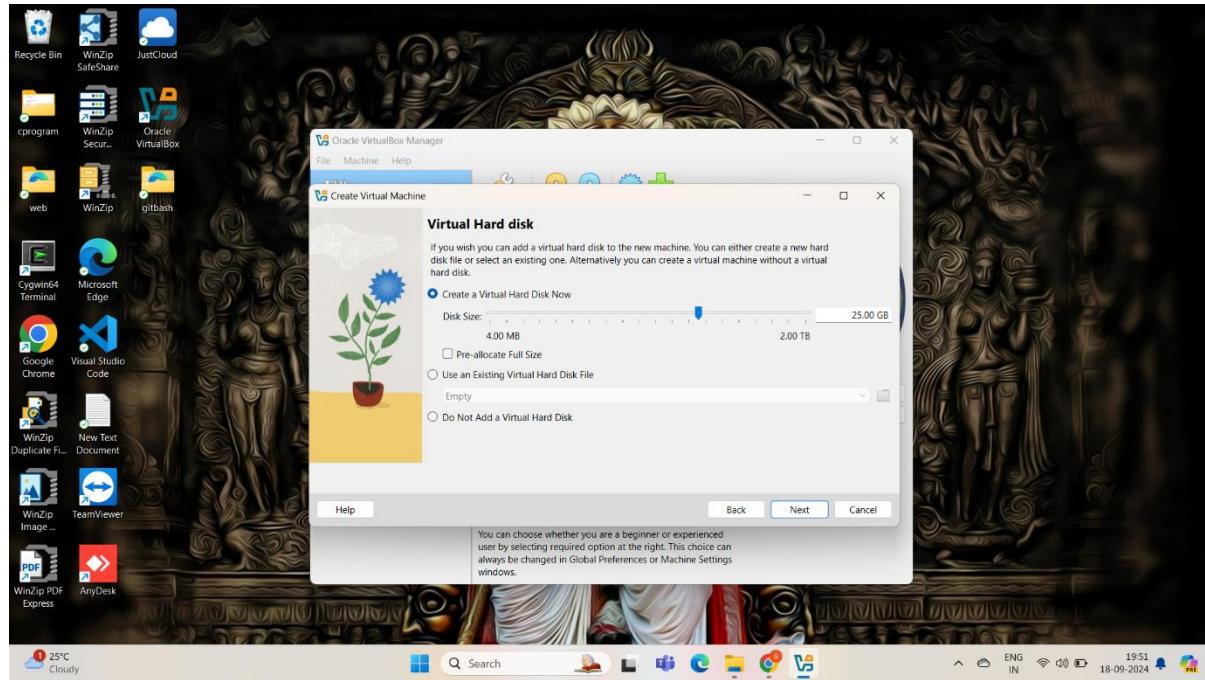
After that go to ISO image add the ISO(ubuntu iso file) and click all next check box and finish.



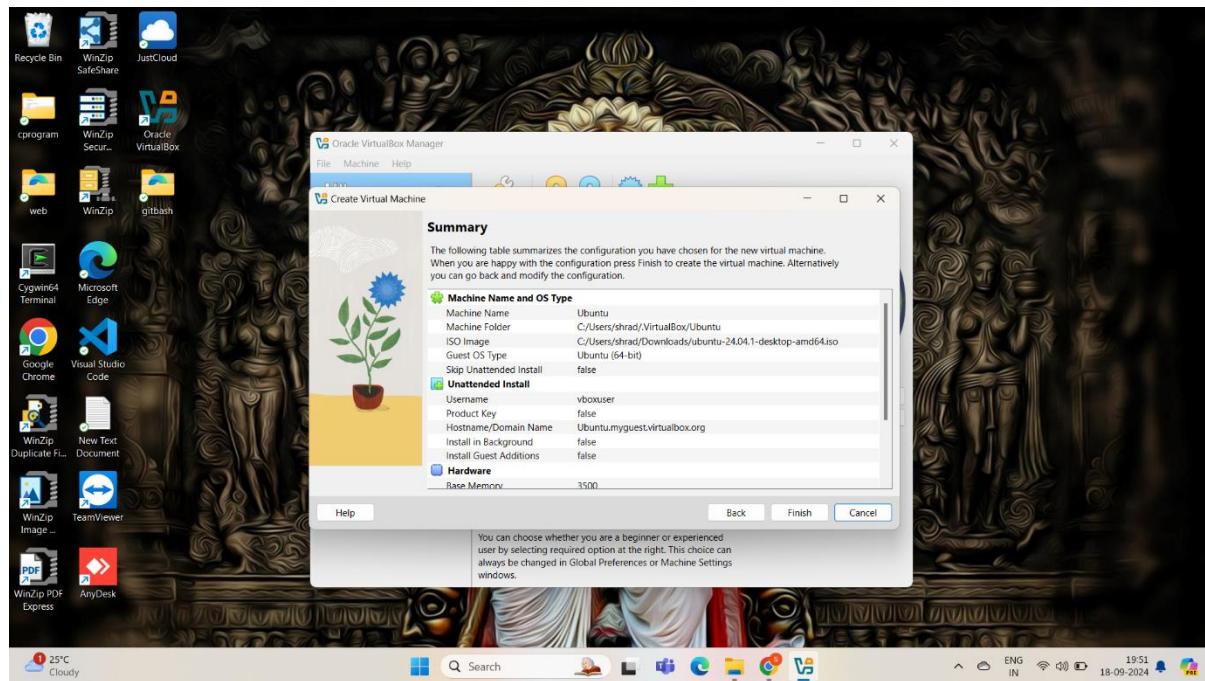
Step 8:-Select the size of memory and no of CPU cores you want to allocate to your VM:



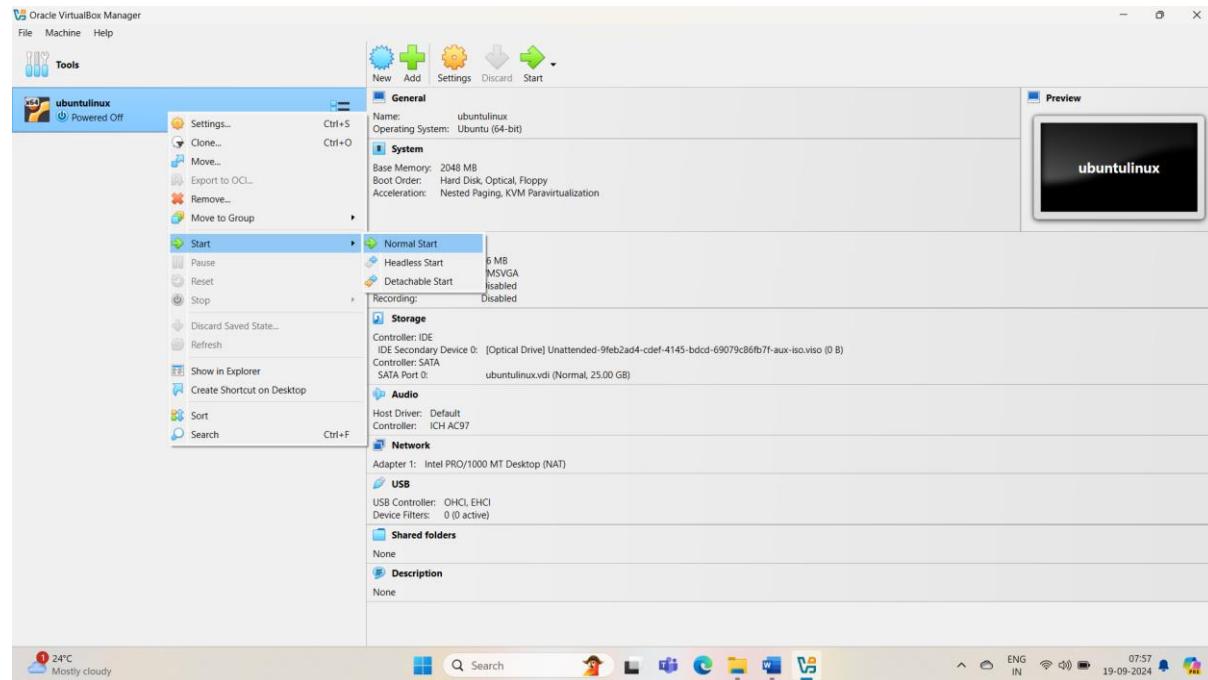
Step 9:-Select the size of storage you want to allocate:



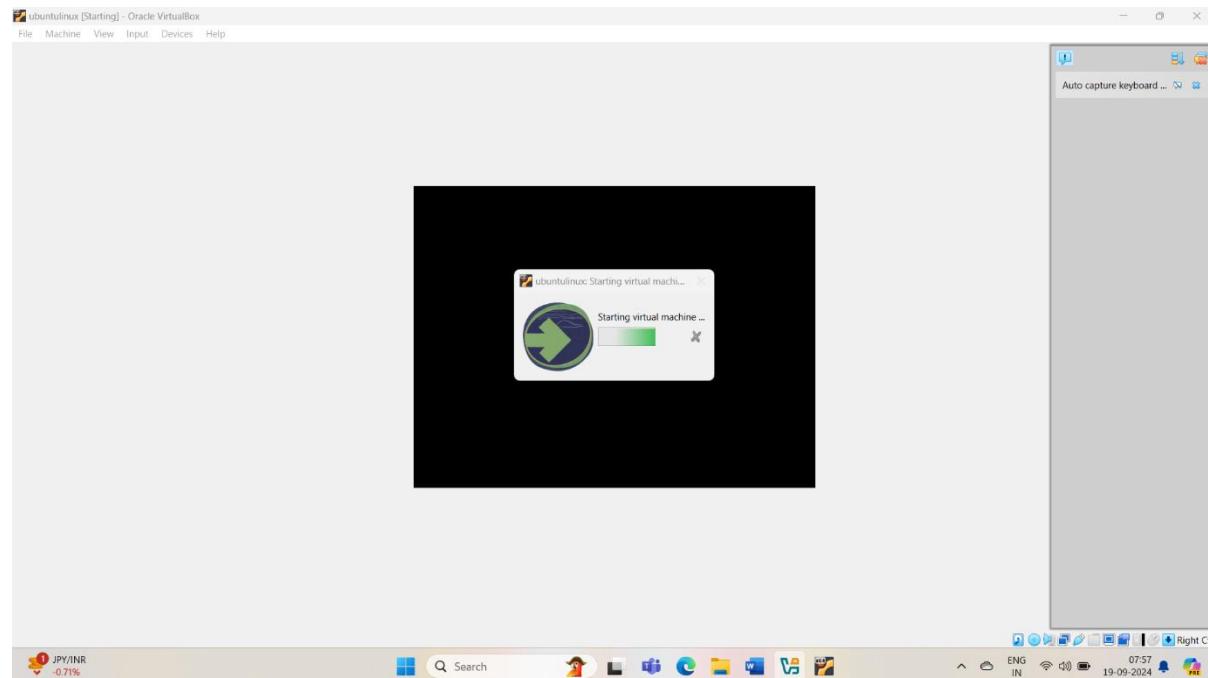
Step 10:-Verify if the information about your VM is corrected and click on finish. Now your VM is created and you need to setup the VM OS:



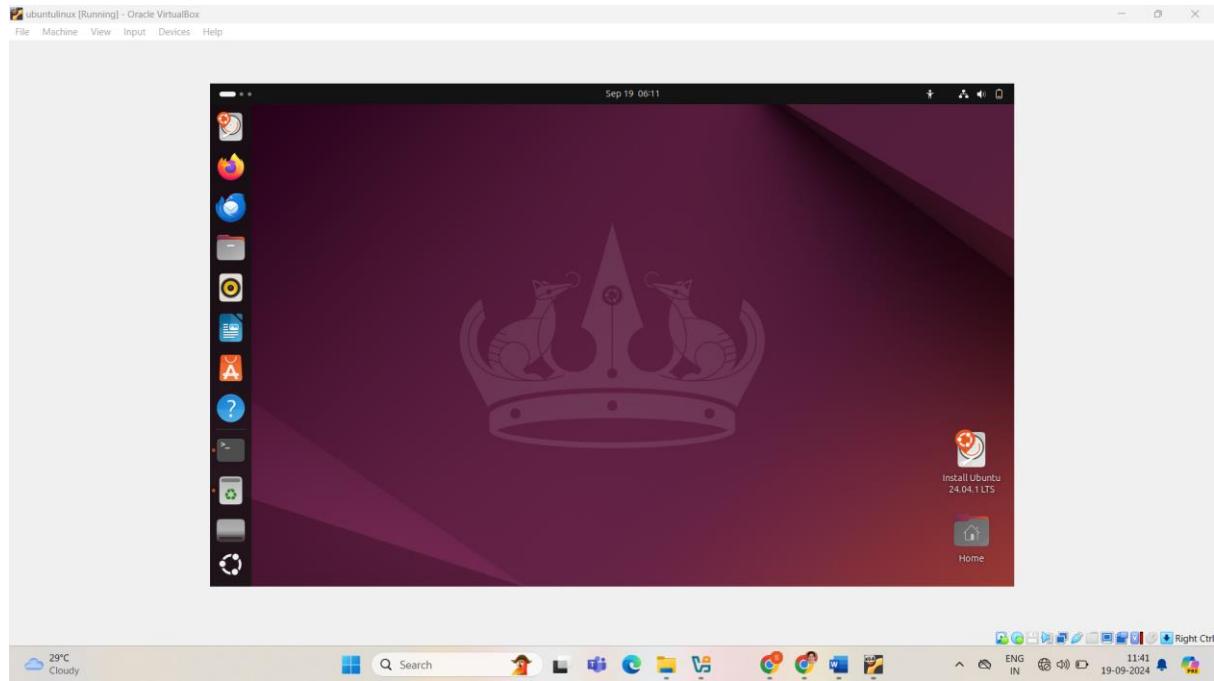
Step 11:-Right-click on the VM to open the menu, click on start and then click on normal start:



Step 12:-Now you need to setup your OS by following the setup as required as shown in the OS setup wizard:



Step 13:-Now your OS and VM in VirtualBox is completely setup and you can use it just like you would an OS running directly on the host machine:



Practical no:-4

Practical name:-Setting up a cloud Environment with OpenStack.

OpenStack is an open-source cloud computing platform that allows you to create and manage a cloud environment. Here's a step-by-step guide to setting up a cloud environment with OpenStack:

Prerequisites:

1. Familiarity with Linux and networking concepts.
2. A machine with at least 4GB RAM, 2 CPU cores, and 50GB storage.
3. Internet connection.

Step 1: Install OpenStack:

1. Choose a distribution (e.g., Ubuntu, CentOS) and install it on your machine.
2. Install OpenStack using the package manager (e.g., apt-get, yum) or by following the official installation guide.

Step 2: Configure OpenStack:

1. Set up the OpenStack services (e.g., Keystone, Glance, Nova, Neutron) using the configuration files.
2. Configure the network settings, including the IP addresses, subnets, and routers.

Step 3: Create a Cloud Environment:

1. Create a project and user using the Keystone service.
2. Create a network and subnet using the Neutron service.
3. Launch an instance (virtual machine) using the Nova service.
4. Create a volume and attach it to the instance using the Cinder service.

Step 4: Customize the Cloud Environment:

1. Install and configure additional services (e.g., Swift, Heat, Ceilometer).
2. Customize the instance flavors, images, and networks.
3. Implement security measures (e.g., firewalls, access controls).

Step 5: Manage the Cloud Environment:

1. Monitor the cloud environment using the Horizon dashboard or command-line tools.

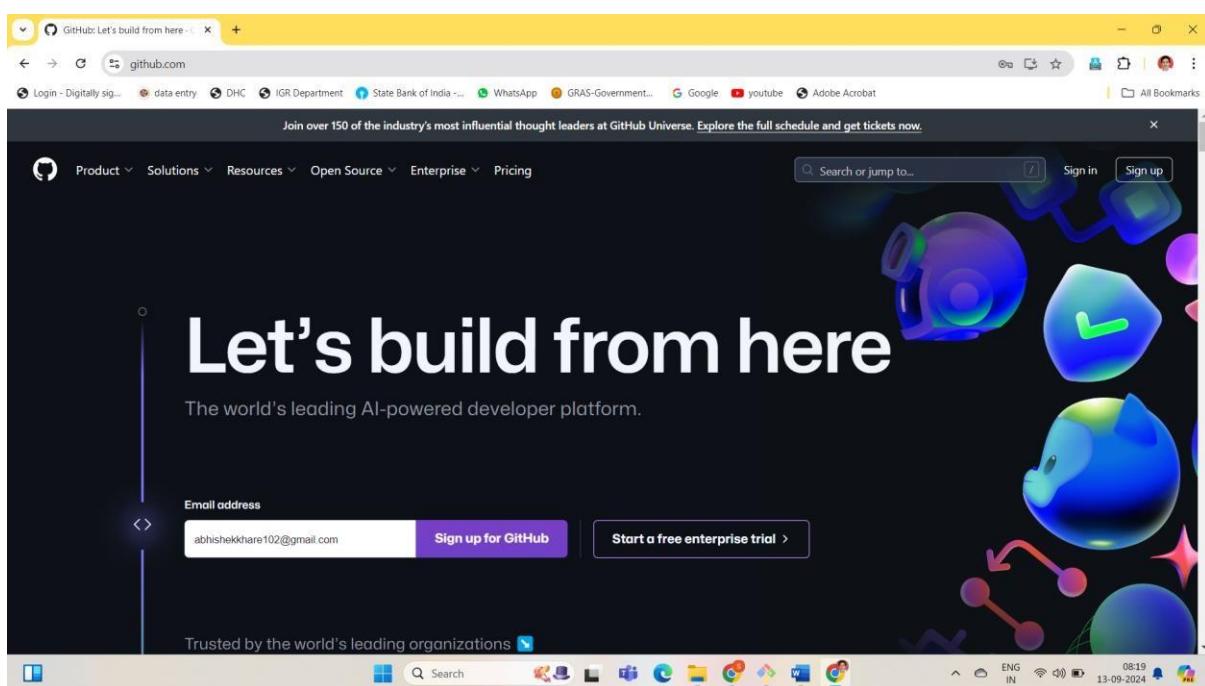
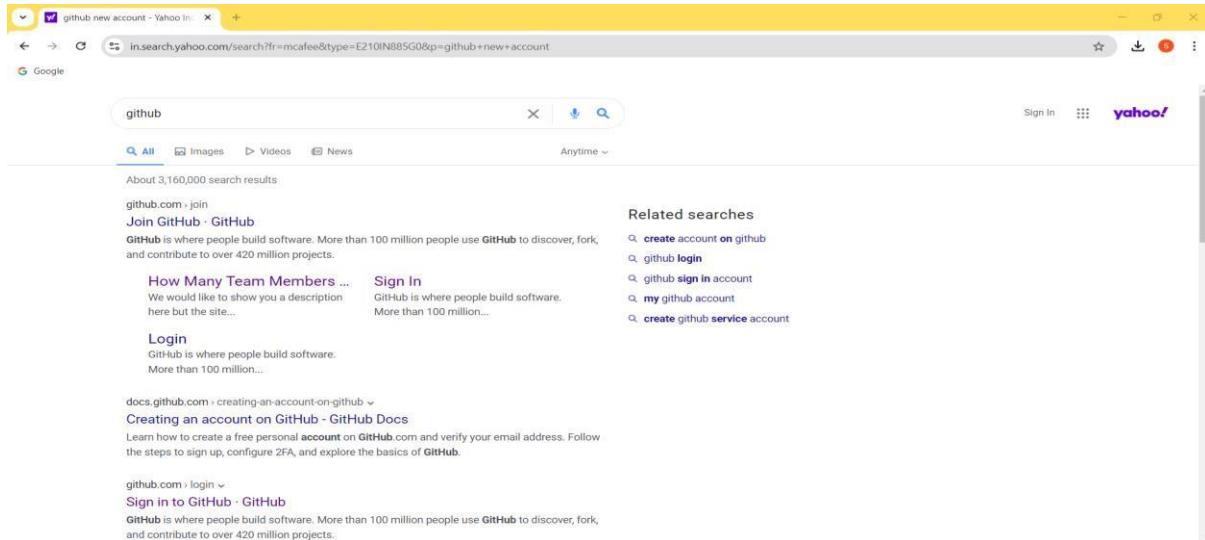
2. Perform maintenance tasks (e.g., upgrades, backups).

Troubleshooti.

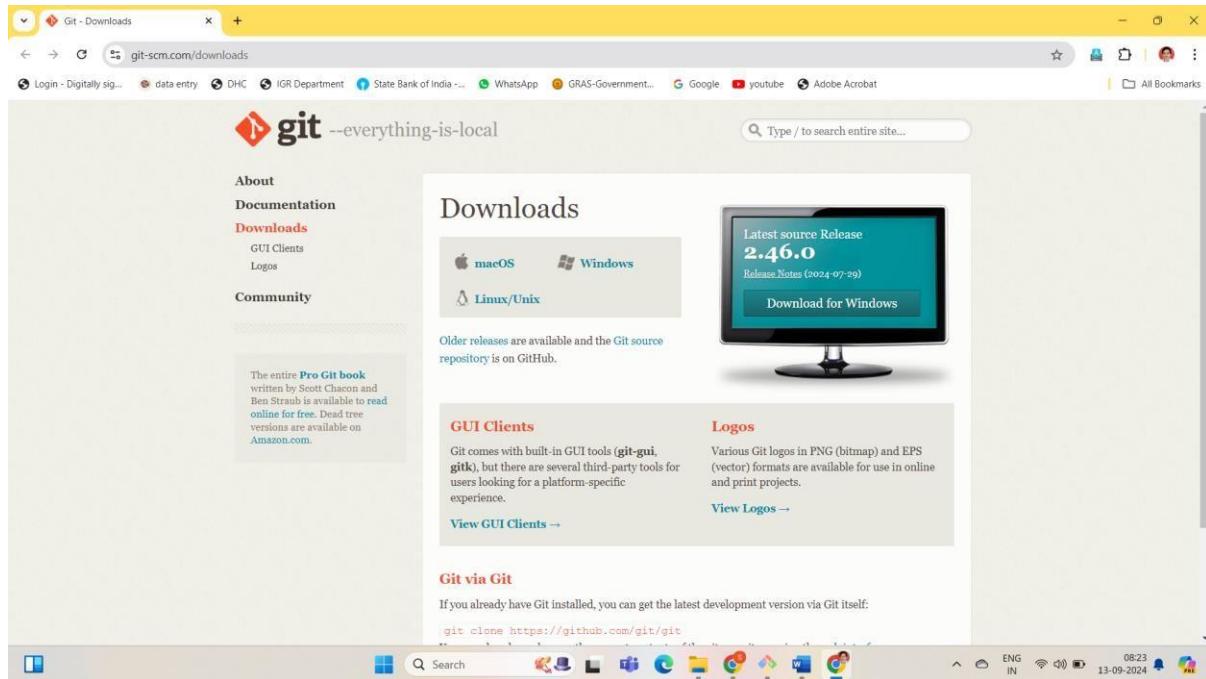
Practical no:-5

Practical name:- Setting up a Simple Website on GitHub.

Step 1:- search for github in browser and sign-in or sign-up with your credentialsas required:

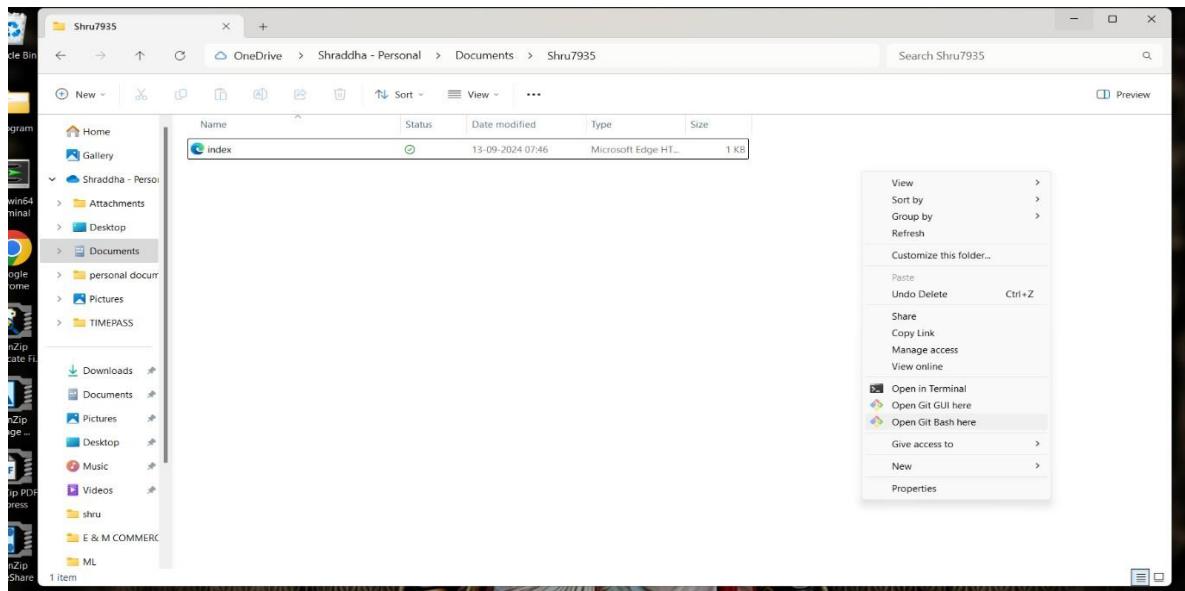


Step 2:- search for git on browser and download the setup from the first website then just double click on the downloaded setup and click next until it is installed:



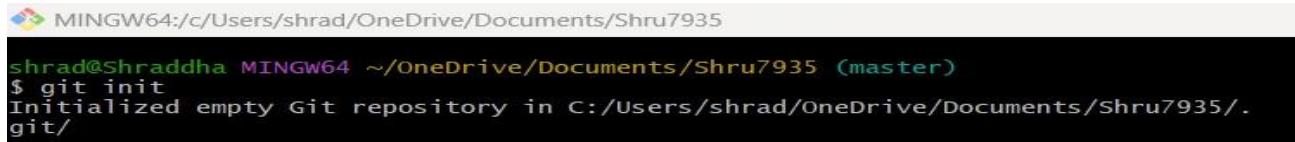
Step 3:-

Create simple static webpage and open location and then right click and then click on “open Git base here”



Step 4:-

Execute the command “git init” in the opened terminal to initialize a Git repository:



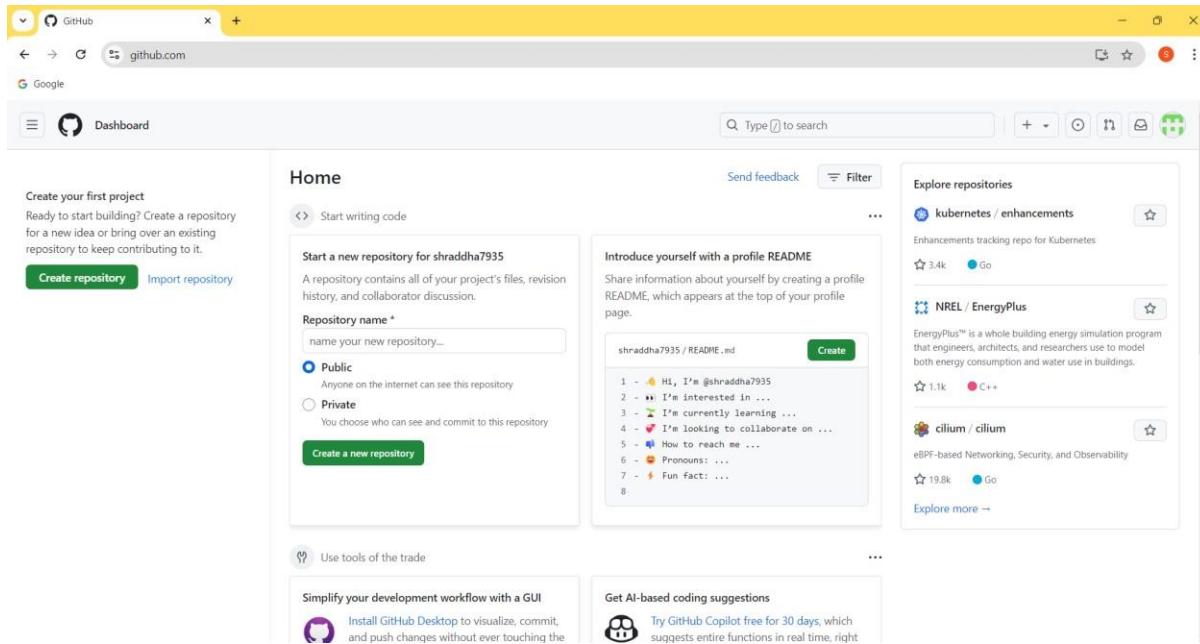
```
MINGW64:/c/Users/shrad/OneDrive/Documents/Shru7935
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git init
Initialized empty Git repository in C:/Users/shrad/OneDrive/Documents/Shru7935/.
```

Step 5:- Execute the following command to setup your GitHub username and email within Git:

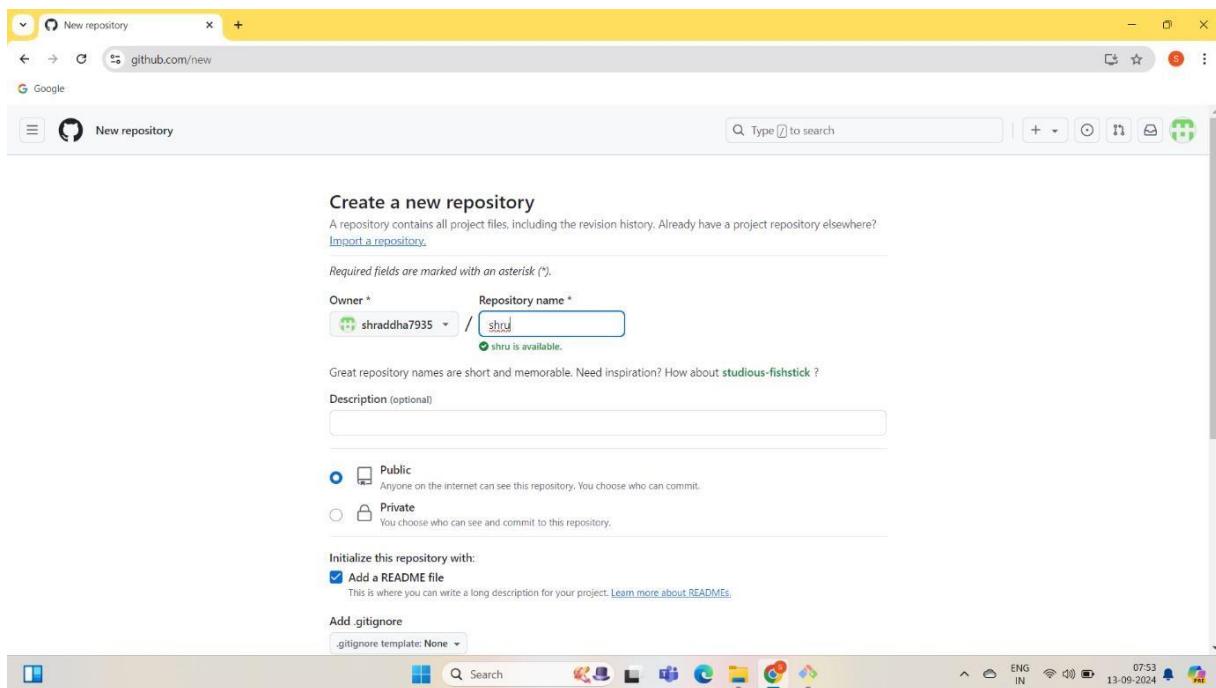
```
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git config --global user.name "shraddha7935"

shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git config --global user.email "shraddhak2104@gmail.com"
```

Step 6:- Now open Github and create a new repository:



Step 7:-Enter a name and description for your repository and then proceed with creating the repository:



Step 8:-Copy the link to your repository and execute the following command as shown:

A screenshot of a web browser showing the GitHub repository page for 'shru'. The URL in the address bar is 'github.com/shraddha7935/shru'. The repository details show 2 branches and 0 tags. The README file is displayed. On the right side, there is a 'Code' dropdown menu open, showing options like 'Local', 'Codespaces', 'Clone', 'HTTPS', 'SSH', and 'GitHub CLI'. The 'Clone' option has the URL 'https://github.com/shraddha7935/shru.git' highlighted. Below the code dropdown, there are links for 'Open with GitHub Desktop' and 'Download ZIP'. To the right of the code dropdown, there is an 'About' section with the message 'No description, website, or topics provided.' and a 'Readme' link. There are also sections for 'Activity', 'Star 0', 'Watch 1', and 'Fork 0'. At the bottom of the page, there are sections for 'Releases', 'Packages', and 'Deployments'. The browser's taskbar at the bottom shows various pinned icons.

```
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git remote add origin https://github.com/shraddha7935/shru.git
```

Step 9:-Execute the following command to create a snapshot of the changes made in your project with the quotes containing a commit message as you like:

```
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git add index.html
```

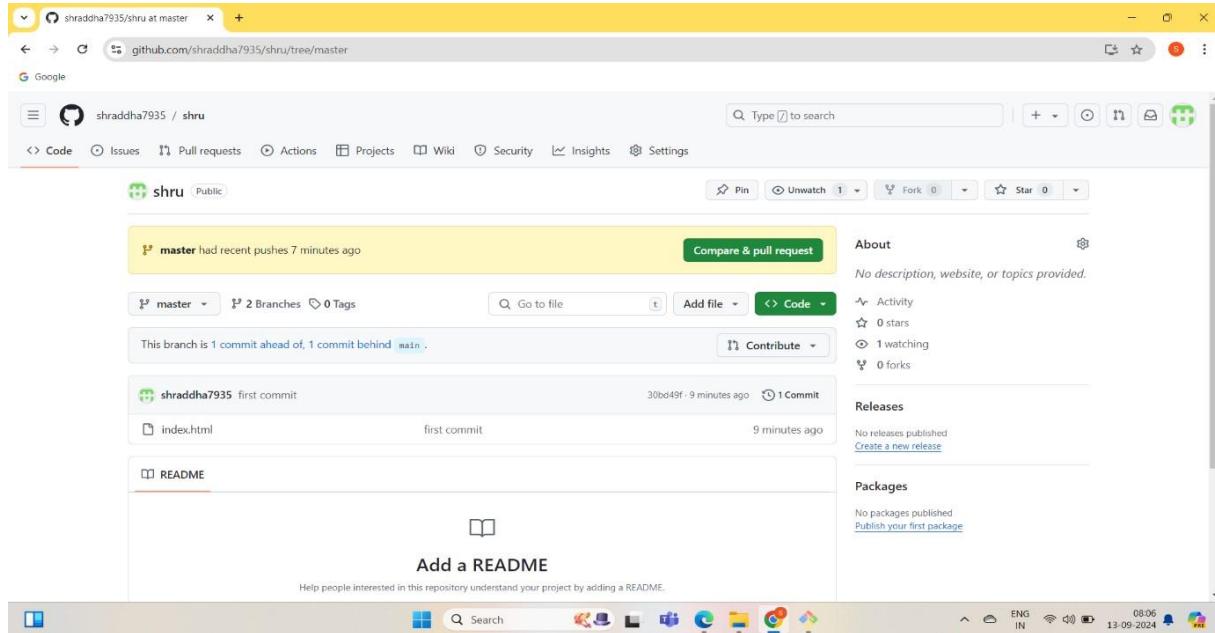
Step 10:-Execute the following command to create a snapshot of the changes made in your project with the quotes containing a commit message as you like:

```
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git commit -m "first commit"
[master (root-commit) 30bd49f] first commit
 1 file changed, 13 insertions(+)
 create mode 100644 index.html
```

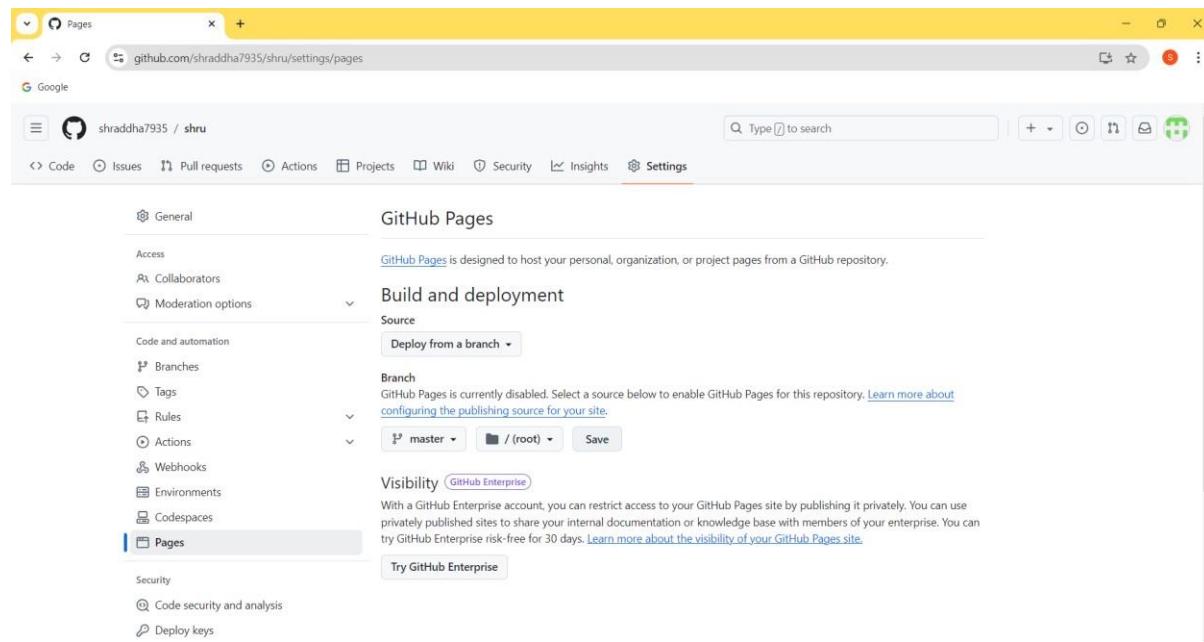
Step 11:-Execute the following command to publish the changes made in your project to your Git repository:

```
shrad@Shraddha MINGW64 ~/OneDrive/Documents/Shru7935 (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 450 bytes | 450.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:     https://github.com/shraddha7935/shru/pull/new/master
remote:
To https://github.com/shraddha7935/shru.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
```

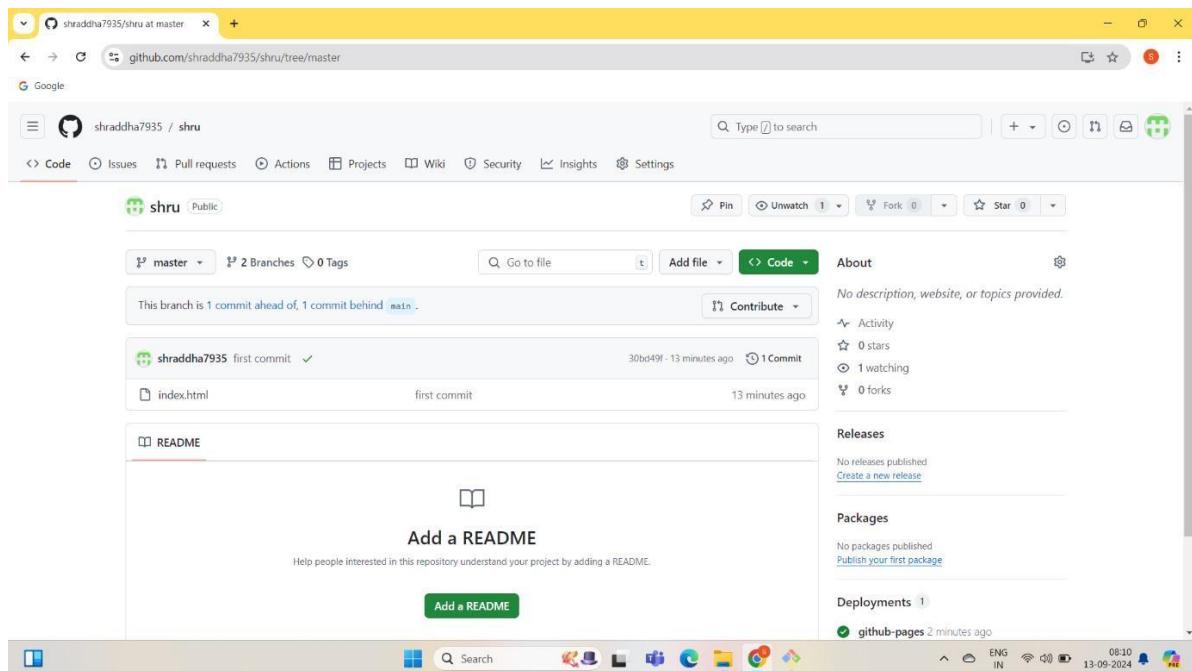
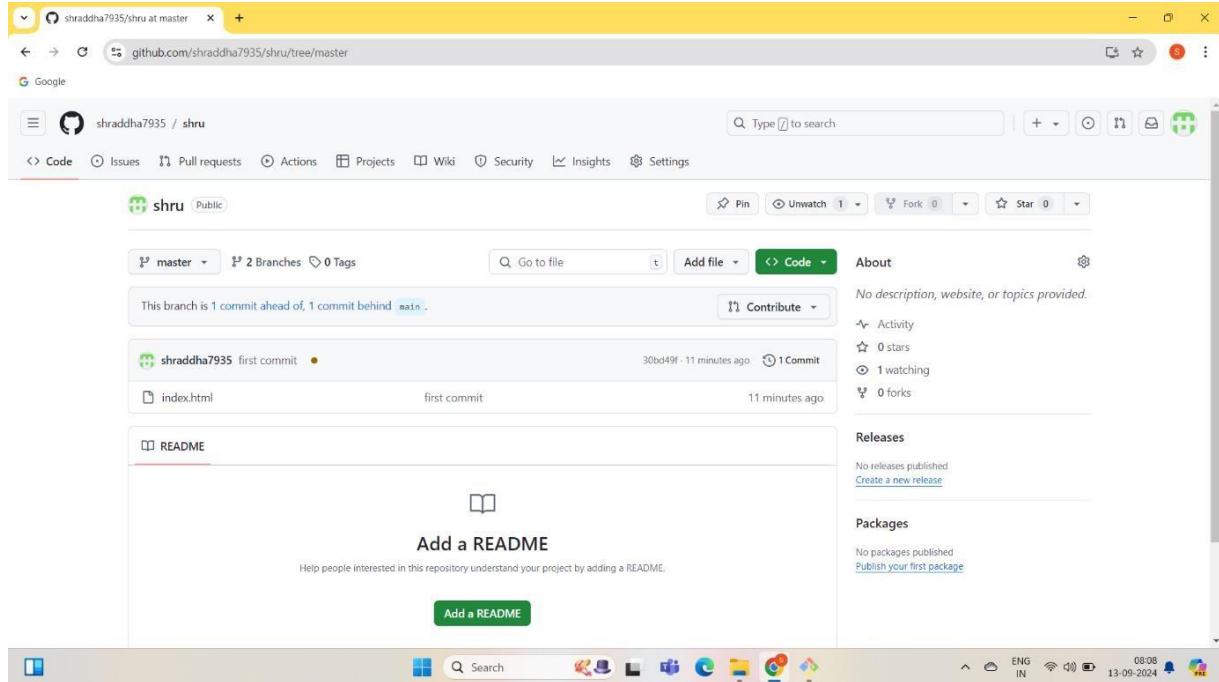
Step 12:-Now your files has been added to your Github repository as you can see in the image below:



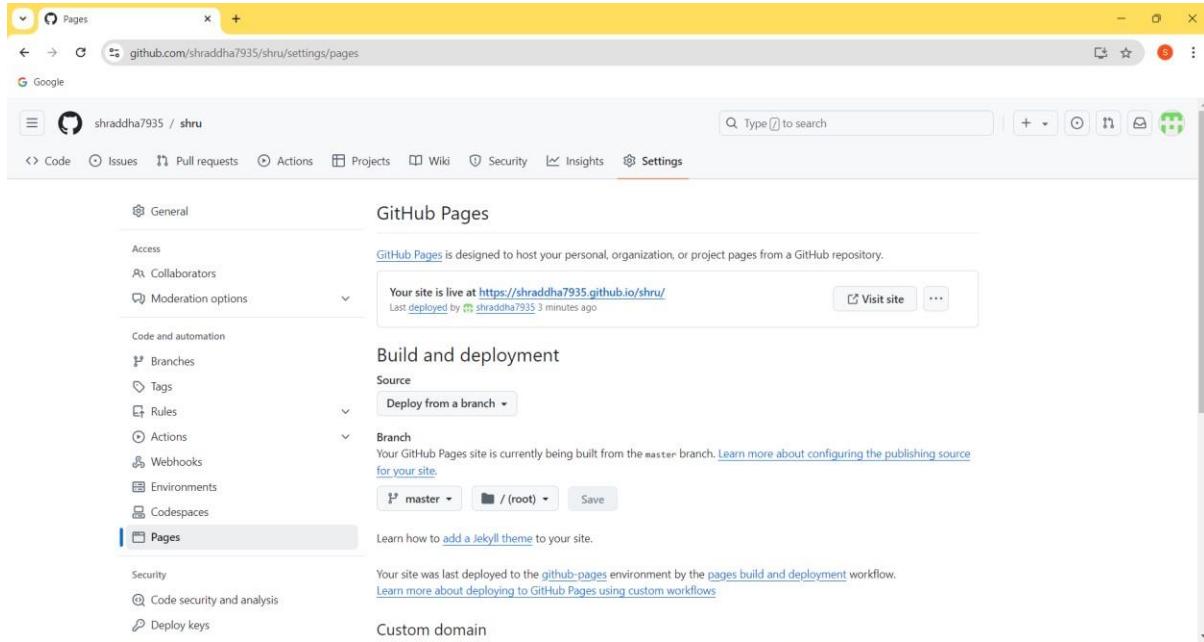
Step 13:-Now open the “Settings” tab and open the “pages”menu where you have to select and save the branch as master:



Step 14:-Now back in your repository main page you will see a brown dot in the header containing the upload time of your repository indicating that the website publishing is pending but after a while it will turn to check mark indicating that the website has been hosted:

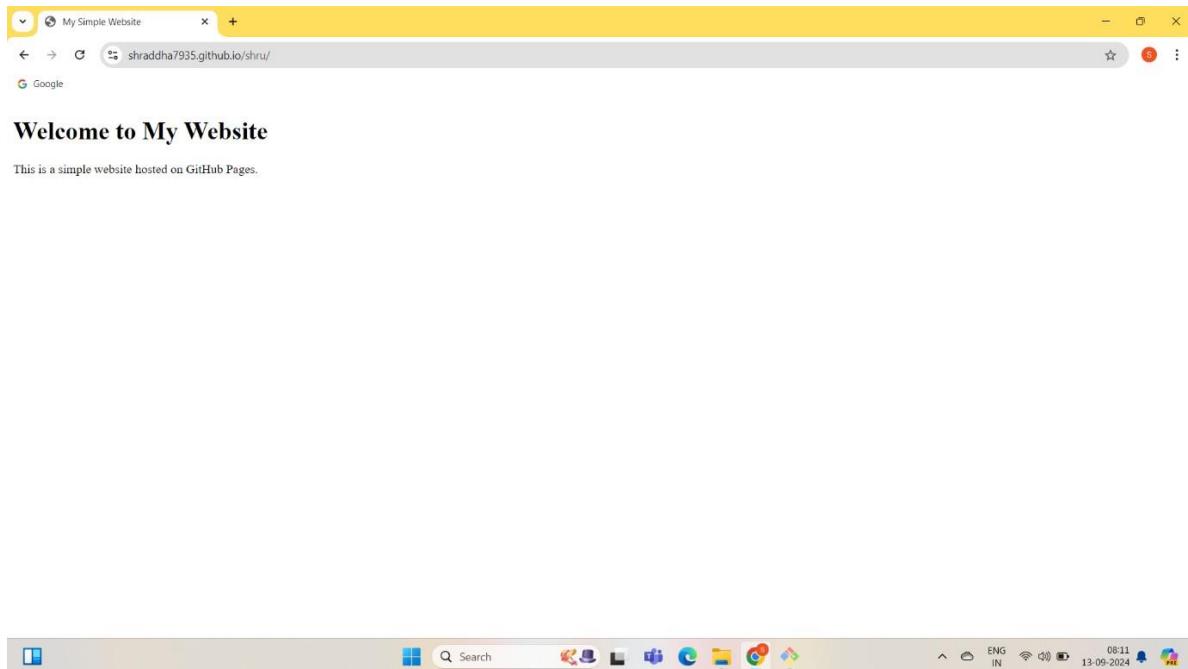


Step 15:-Now back in the pages menu of your settings tab you will see a linkwhich is a URL to your website hosted on the GitHub:



The screenshot shows the GitHub Pages settings interface. On the left, there's a sidebar with options like General, Access, Collaborators, Moderation options, Code and automation (Branches, Tags, Rules, Actions, Webhooks, Environments, Codespaces), and Pages (which is selected). The main area is titled "GitHub Pages" and contains information about the repository's GitHub Pages site. It says "Your site is live at <https://shradha7935.github.io/shru/>". Below this, it shows the last deployment details: "Last deployed by shradha7935 3 minutes ago". There are buttons for "Visit site" and "..." (more options). Under "Build and deployment", it shows "Source" set to "Deploy from a branch" and "Branch" set to "master". It also mentions the publishing source and provides links to learn more about Jekyll themes and custom workflows. At the bottom, there's a "Custom domain" section.

Step 16:-Now you just have to click on the URL and your static website will behosted on GitHub as you intended. Done.:)



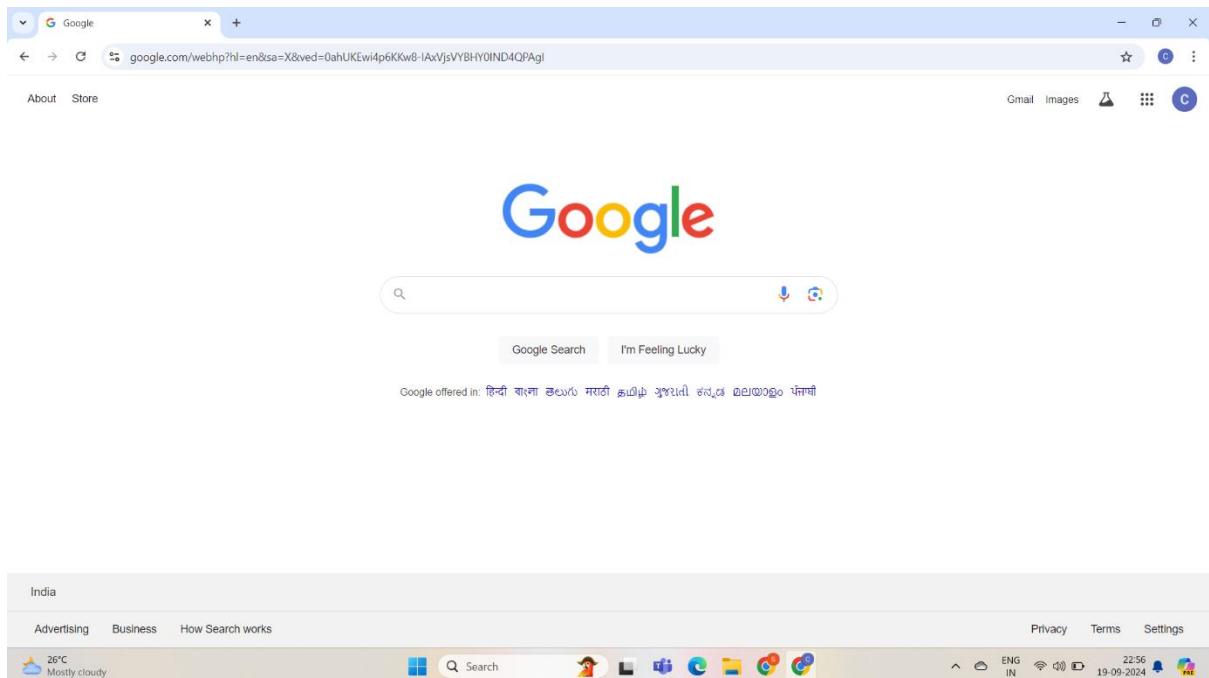
The screenshot shows a web browser window with the title "My Simple Website". The address bar shows the URL "shradha7935.github.io/shru/". The page content is a simple static website with the heading "Welcome to My Website" and the subtext "This is a simple website hosted on GitHub Pages." The browser's taskbar at the bottom shows various pinned icons, and the system tray indicates the date and time as 13-09-2024.

Practical no:- 6

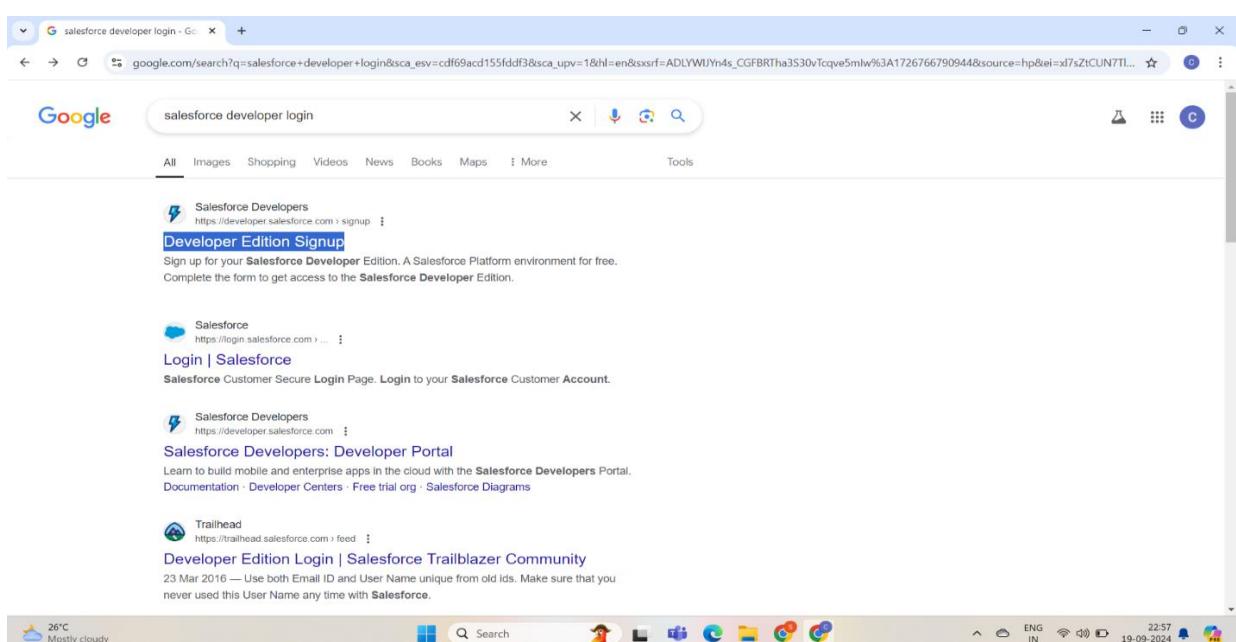
Practical name:- Introduction to cloud CRM (salesforce).

1:-Create a Salesforce Developer Account

Step 1:-Go to Google Chrome:



Step 2:-Search for “Developer Edition Signup” on a browser and click one the official link:



Step 3:-Fill in your details:

1.First Name

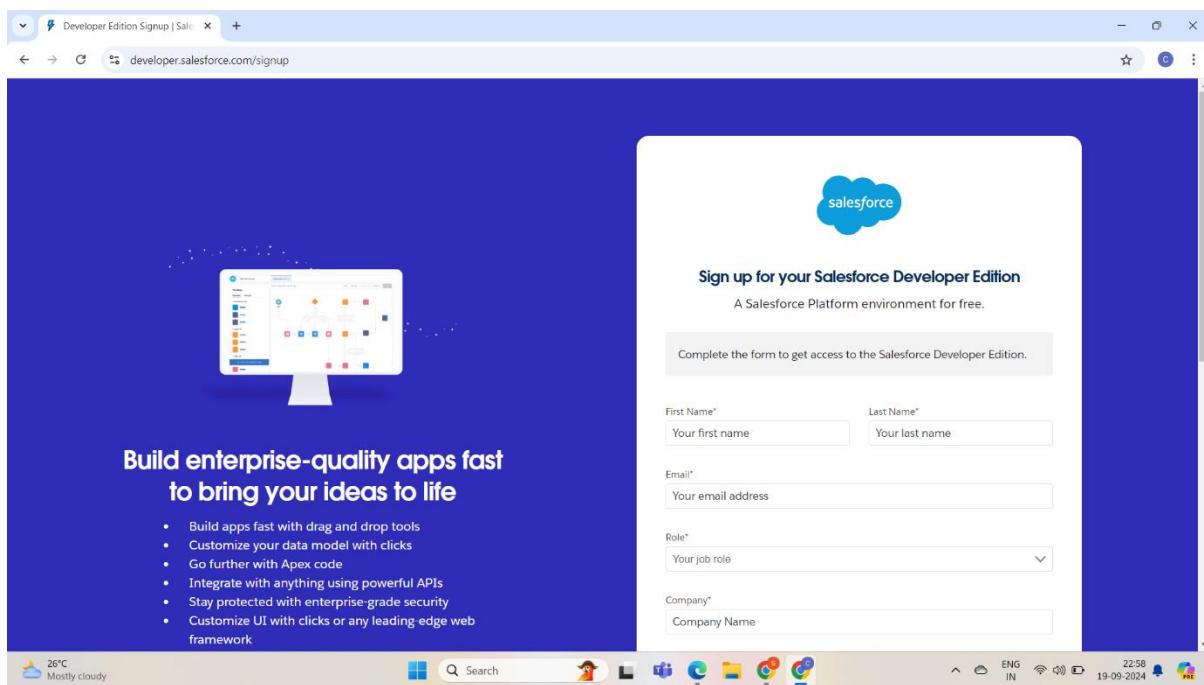
2.Last Name

3.Email (Use a valid email address)

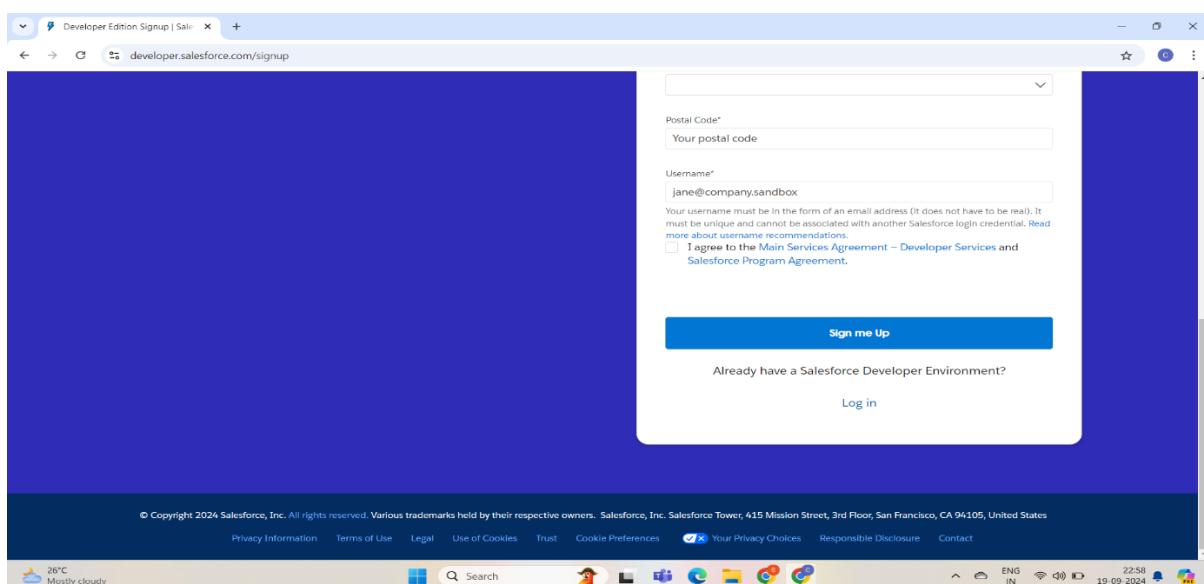
4.Job Title (Choose “student”or leave it blank if not applicable)

5.company (Use “Self” if not part of a company)

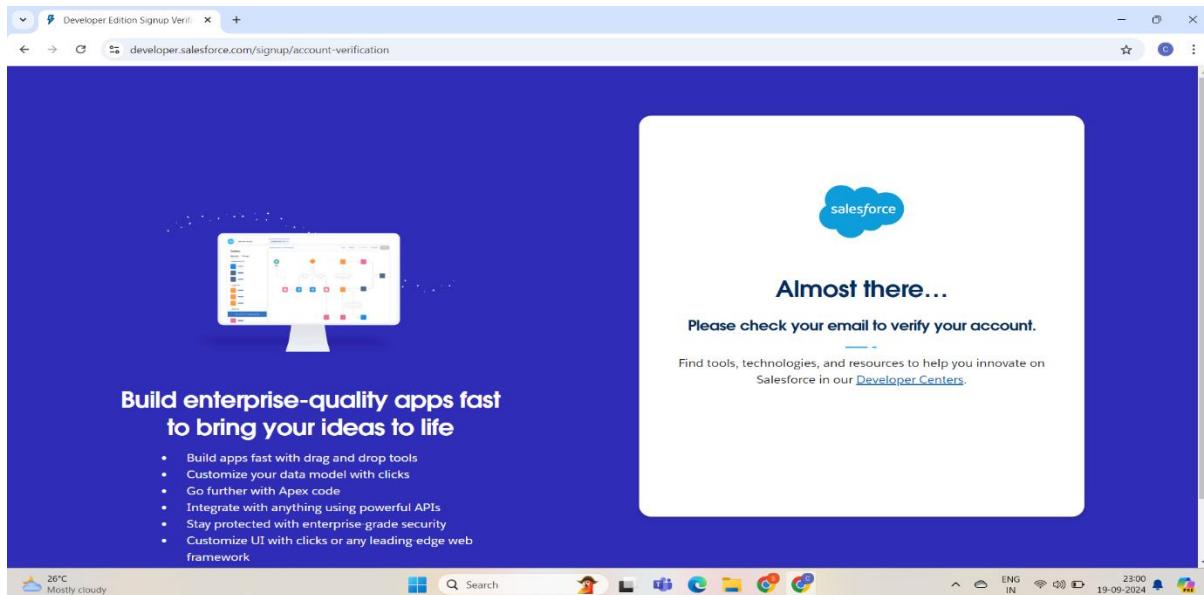
6.country



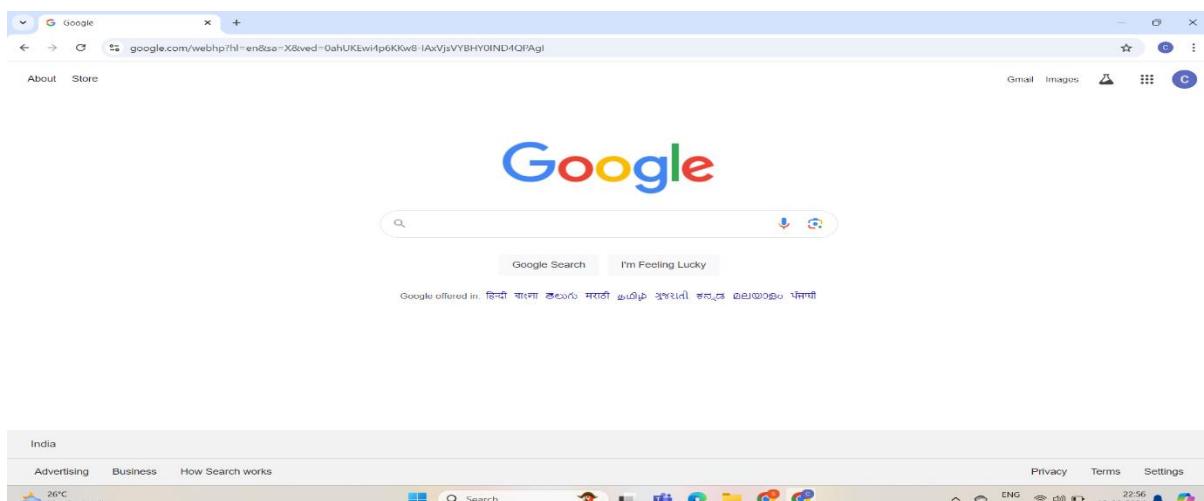
Step 4:-Click on “Sign Me Up” (Right side button):



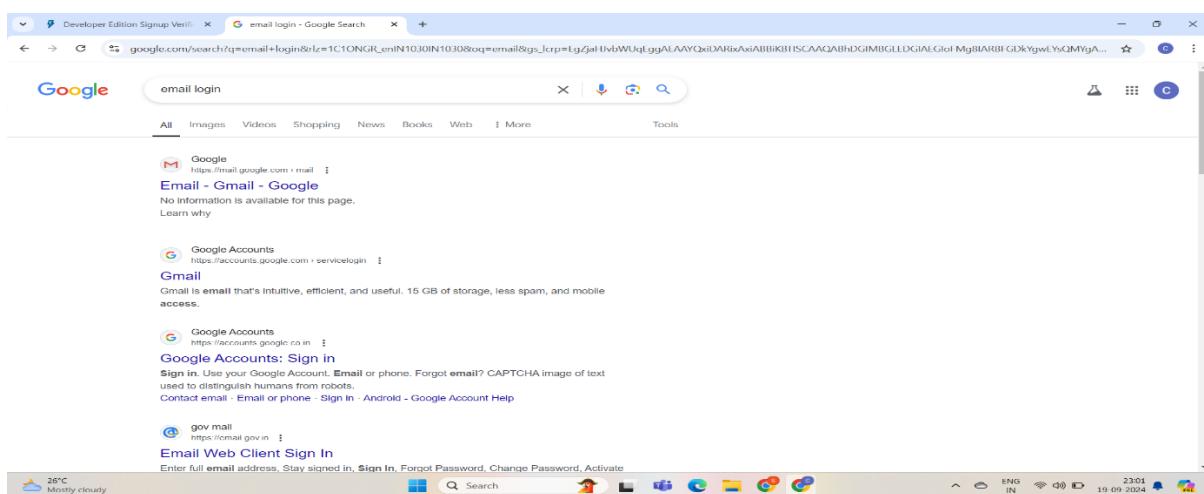
Step 5:-Verify your email:



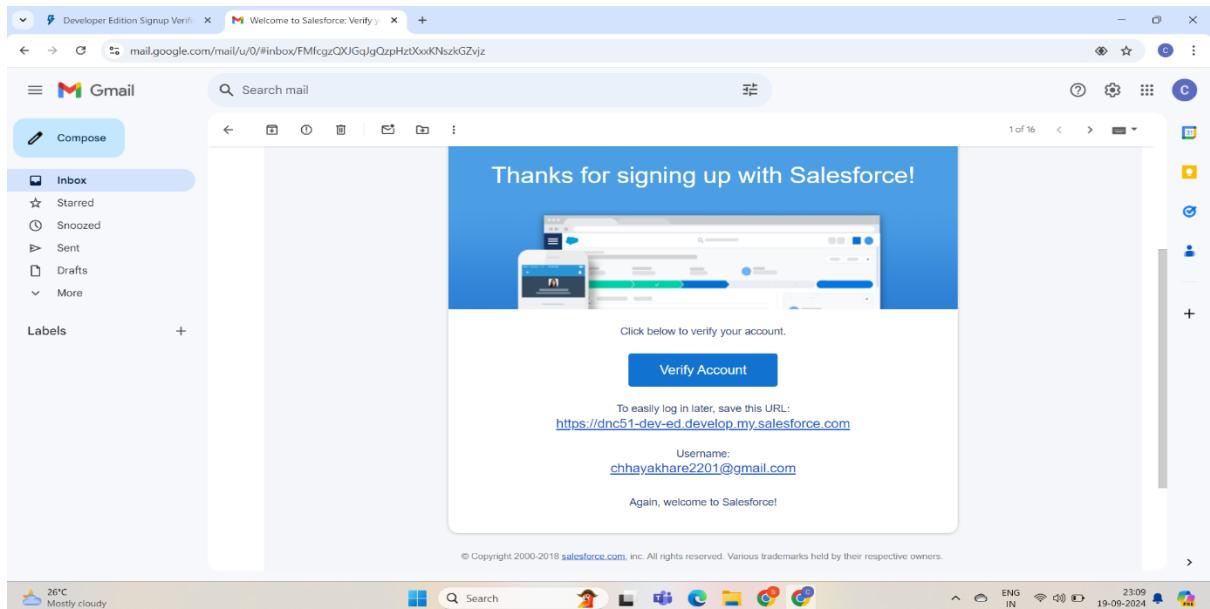
A] Go to Google Chrome:



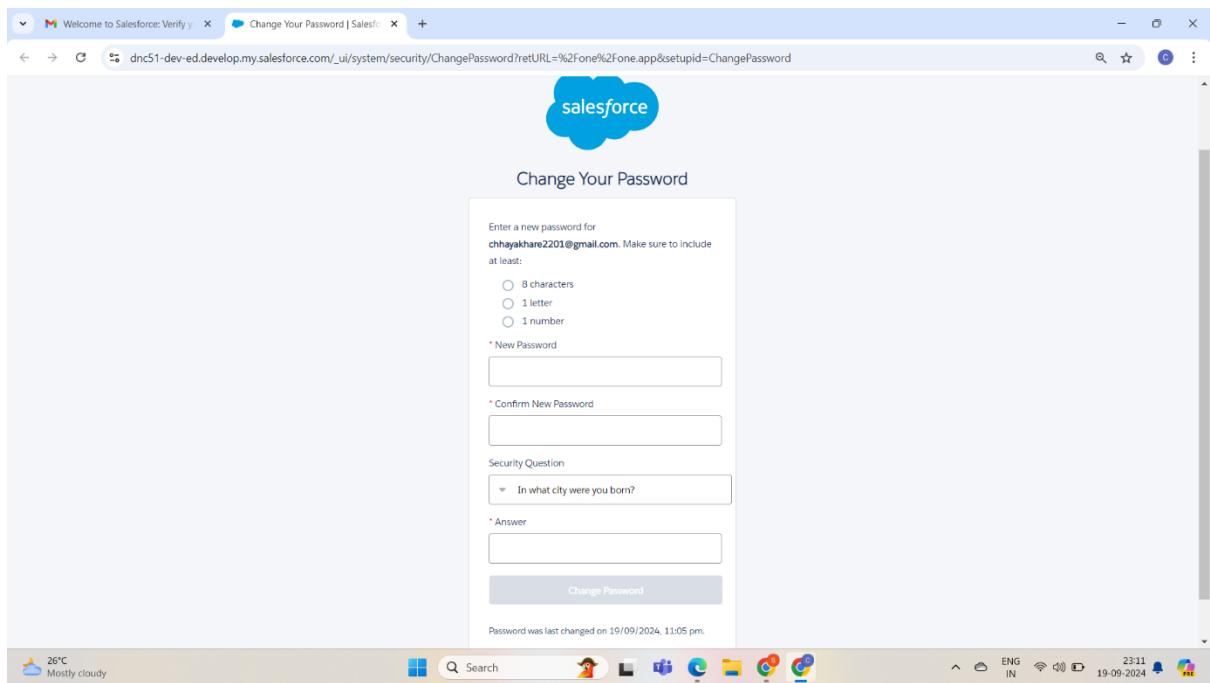
B] Search for “Email” on browser and click on the official link:



C] Check your inbox for the verification email from salesforce:

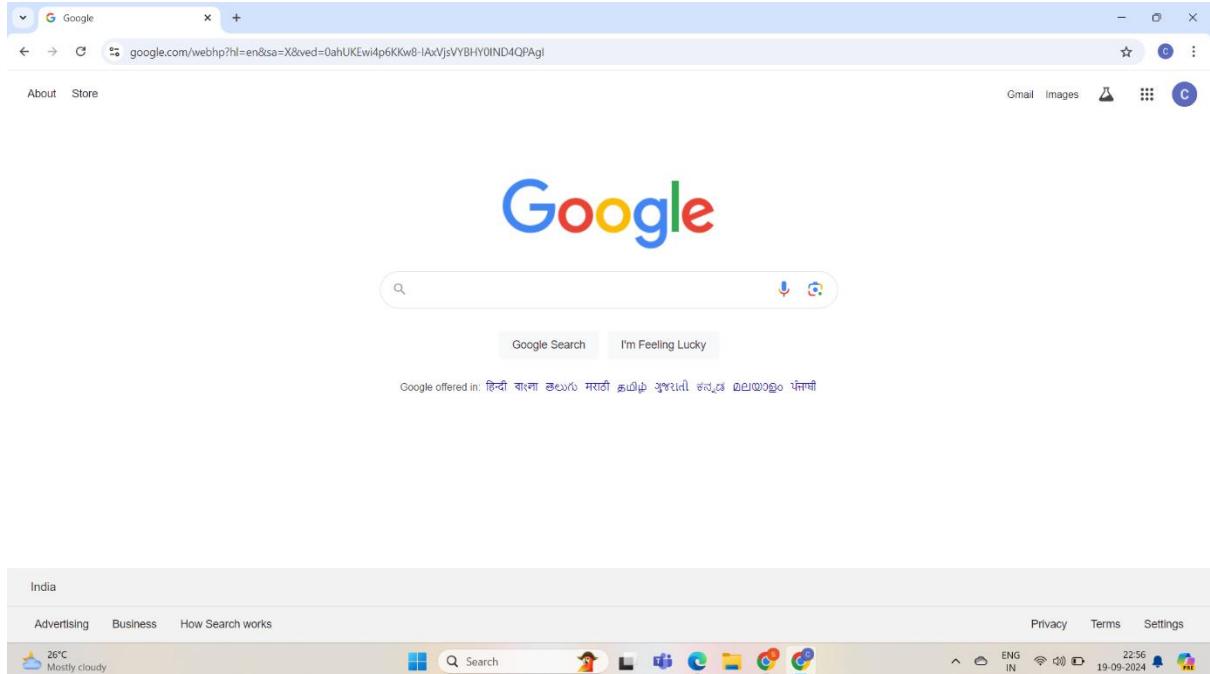


D] Click on the link in the email to verify your account.(Change Your Password):

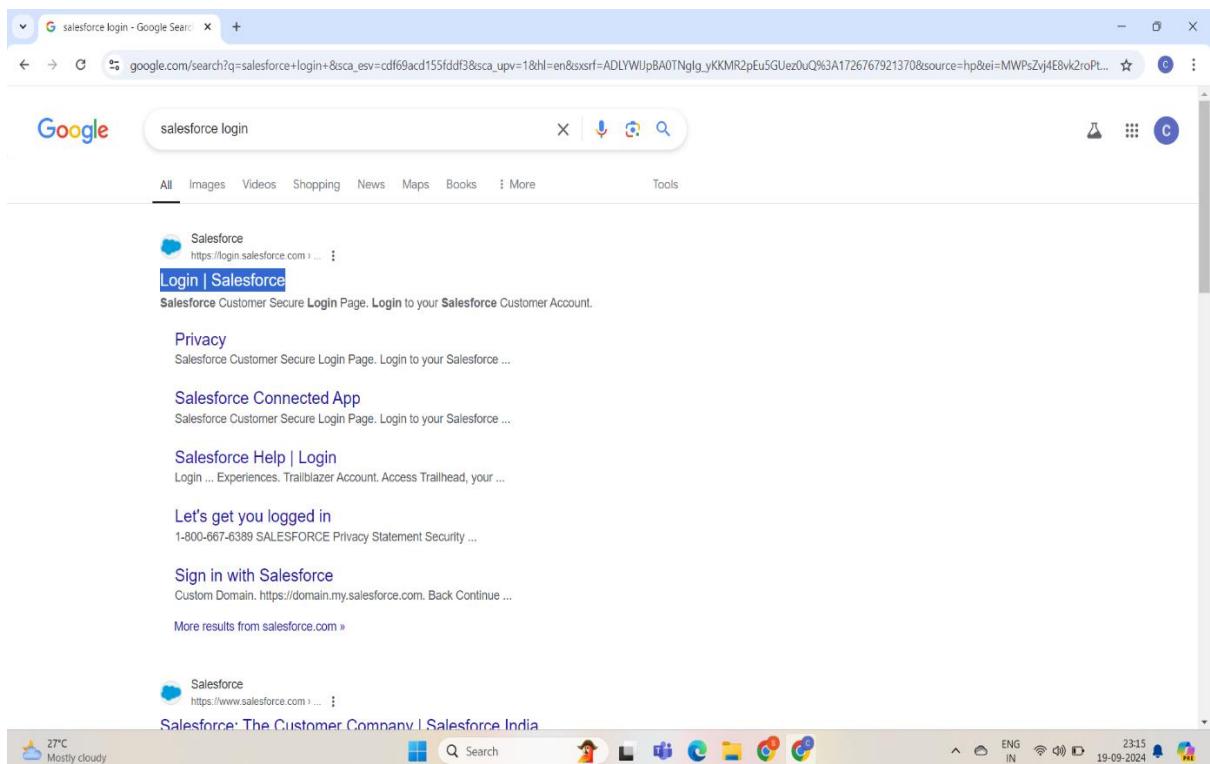


2:-Log into Salesforce Developer Account

Step 1:-Go to Google Chrome:



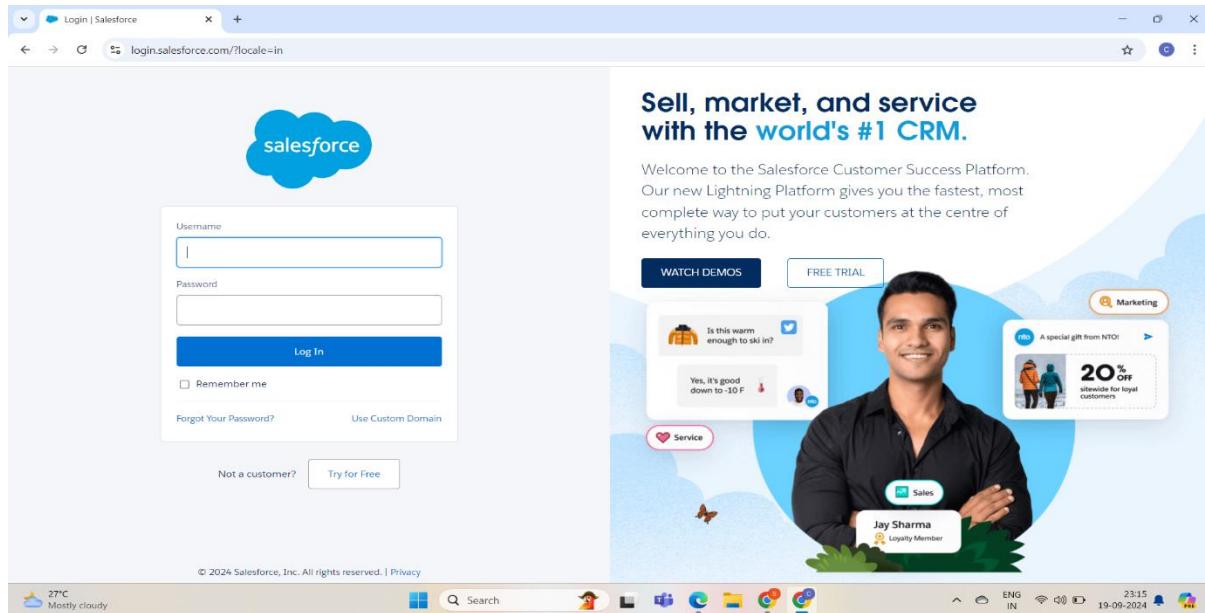
Step 2:-Search for “Salesforce login” on a browser and click one the official link:



Step 3:-Enter your:

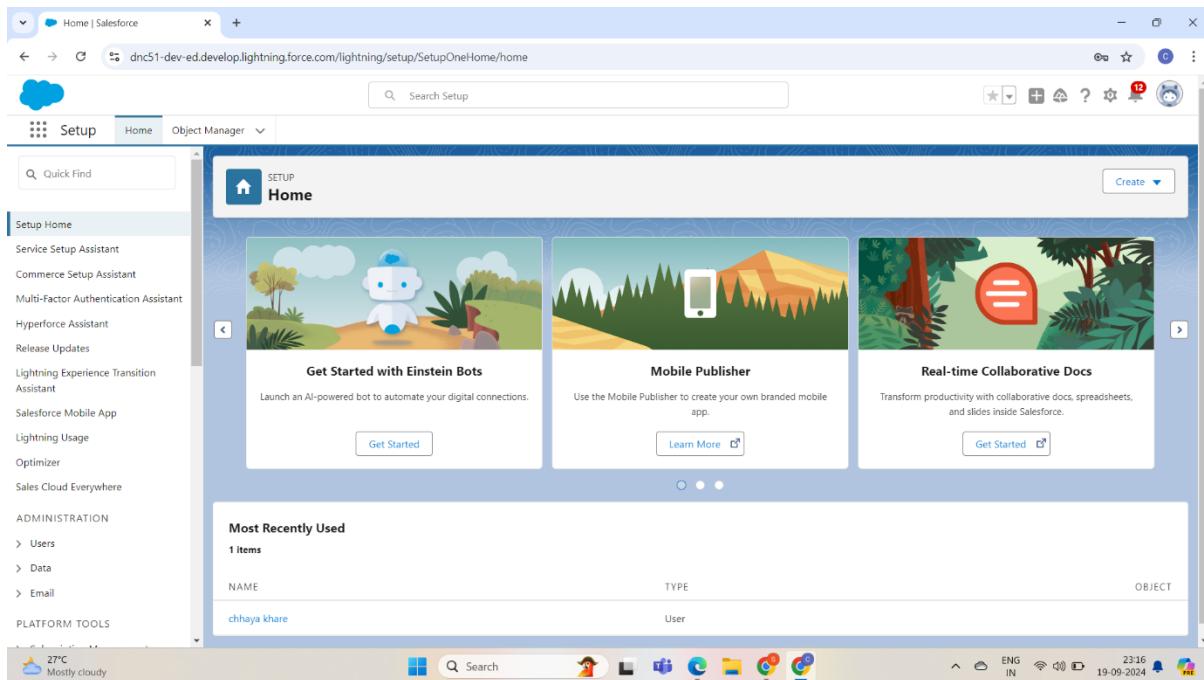
1.UserName (email you used for signing up)

2.Password

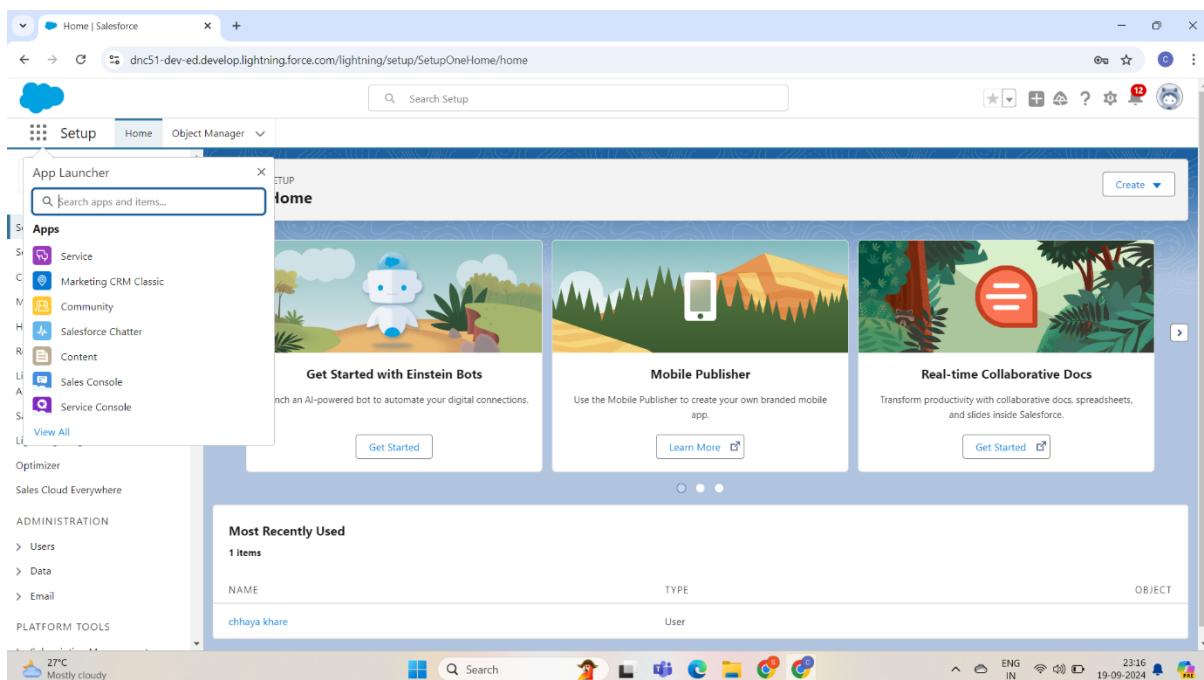


3:-Understand the Salesforce Interface

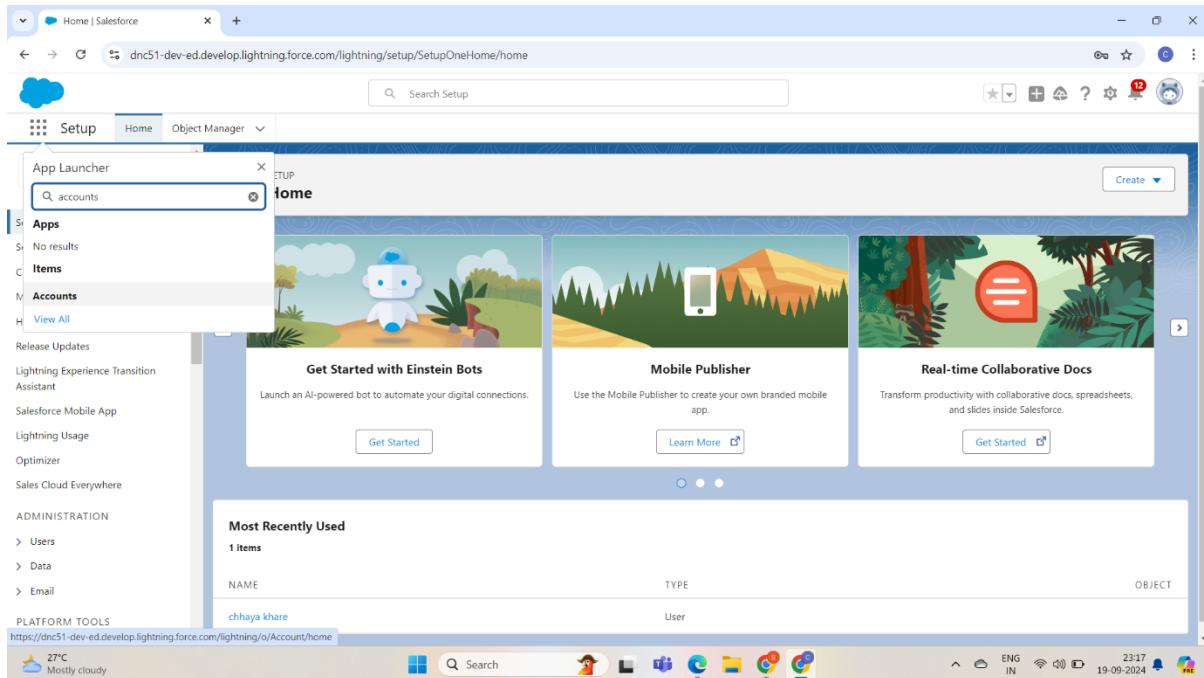
Step 1:-Enter salesforce: Once logged in, you'll be in your Salesforce environment:



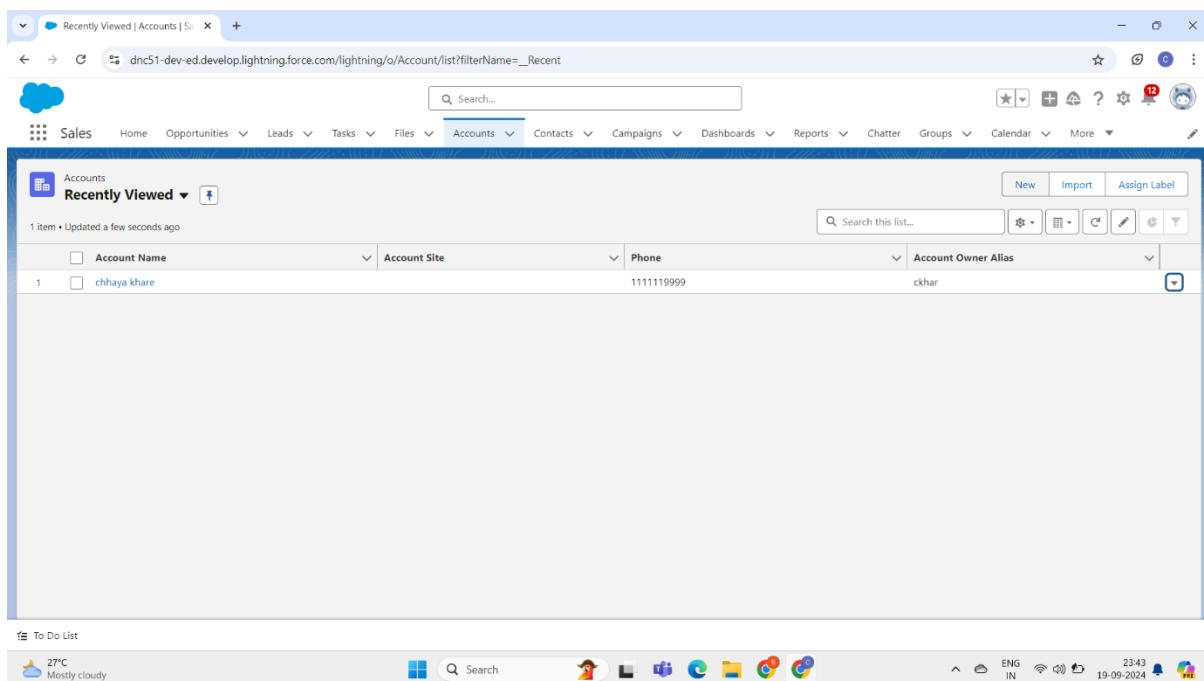
Step 2:-Go to the App Launcher: On the top left, you'll see the App Launcher (the icon with 9 dots):



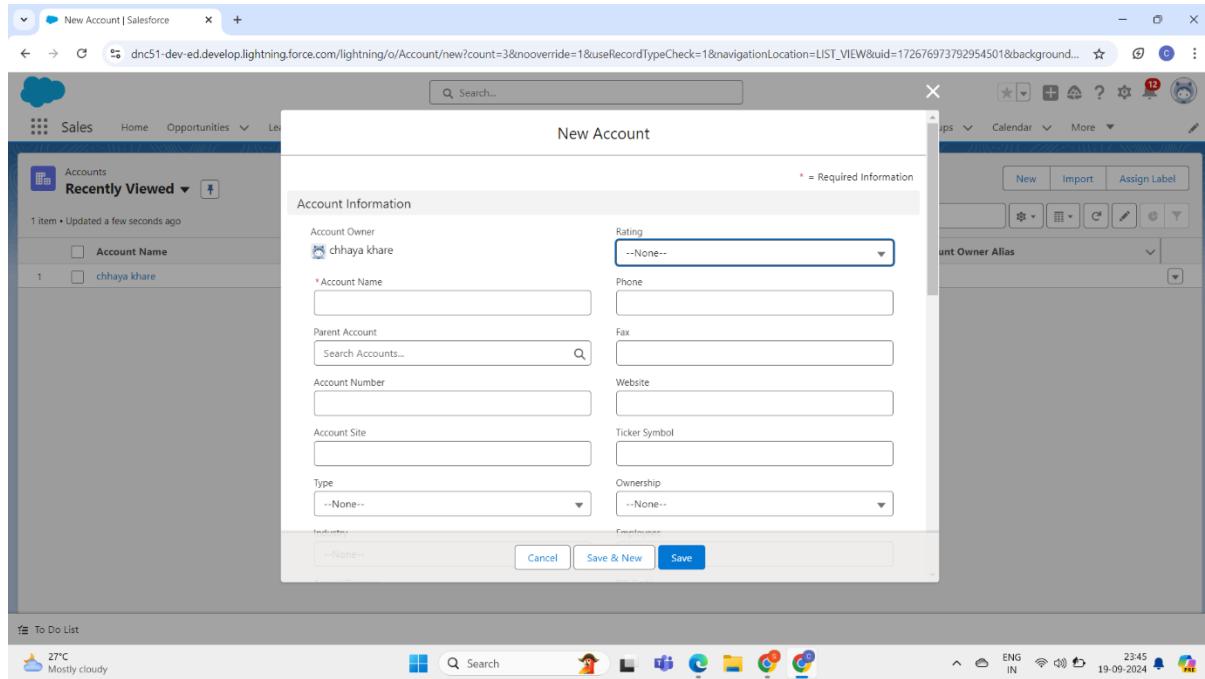
Step 3:-Search for “Accounts”: In the search bar within the App Launcher, type “Accounts” and select it:



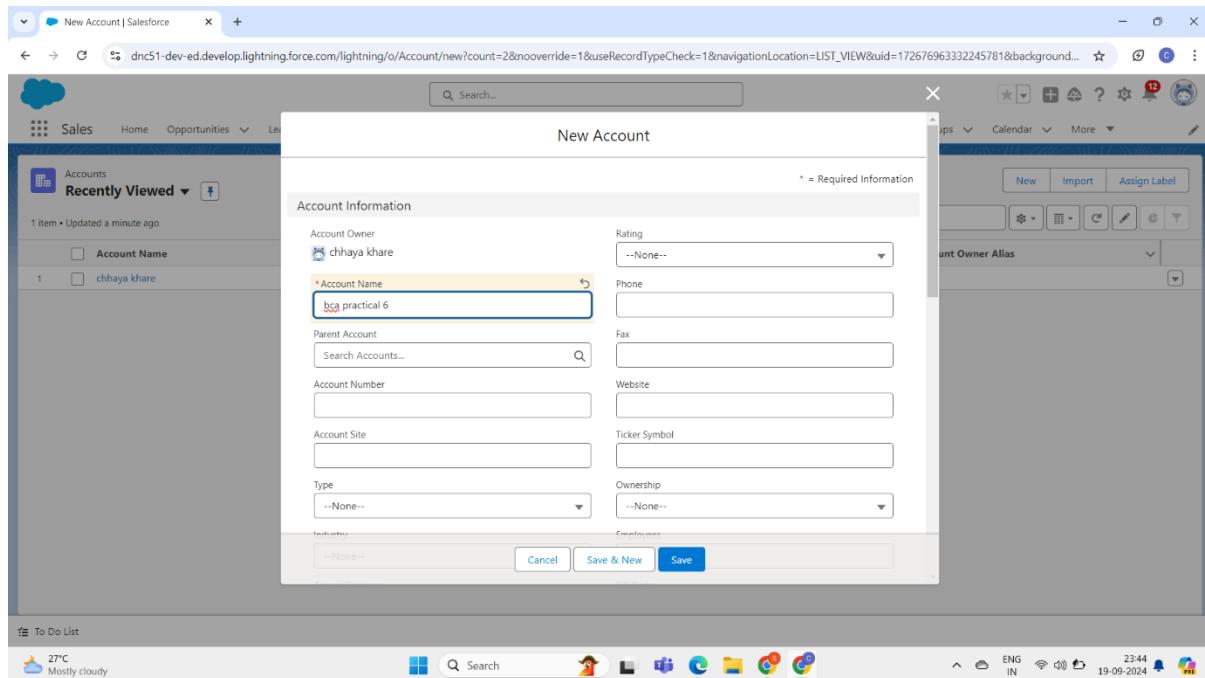
Step 4:-Create a New Account: Once you’re in the Accounts section, click on the “New” button to create a new account:



Step 5:-Fill in Account Information: Provide the account details:



Step 6:-Save the New Account: After filling out the account details, click “Save” to create the new account:



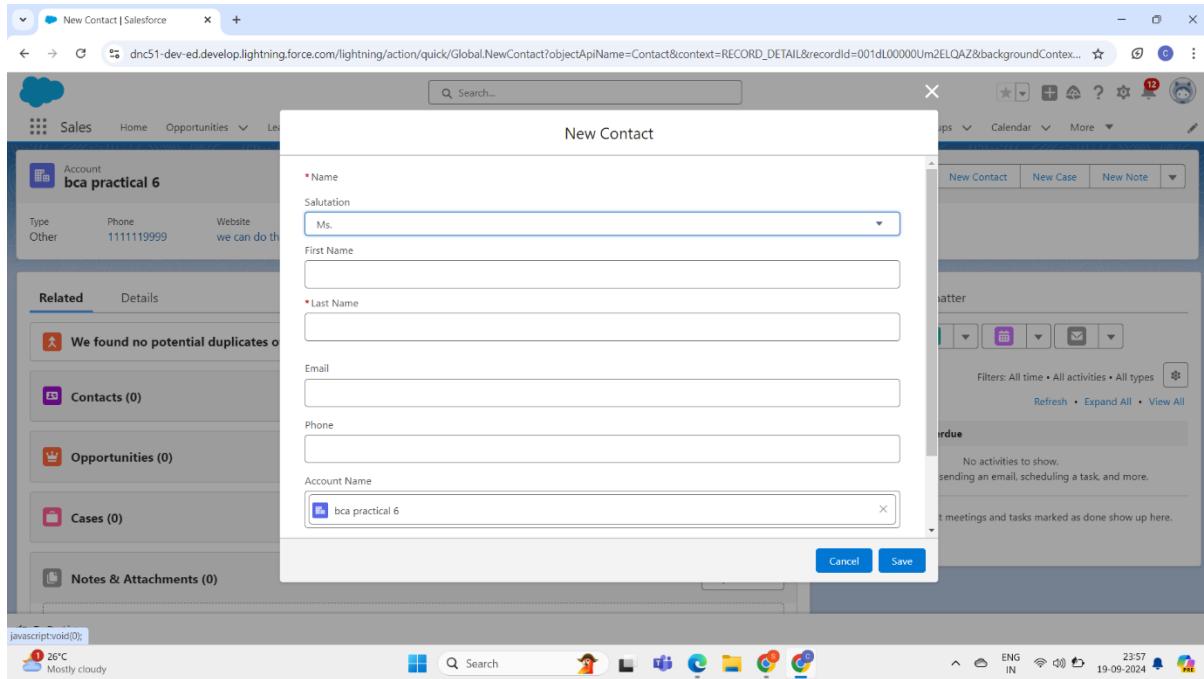
Step 7:-Open the New Account: Once saved, you'll be taken to the new account's page:

The screenshot shows the Salesforce Lightning interface. The top navigation bar includes tabs for Sales, Home, Opportunities, Leads, Tasks, Files, Accounts (which is selected), Contacts, Campaigns, Dashboards, Reports, Chatter, Groups, Calendar, and More. Below the navigation is a search bar and a toolbar with icons for Follow, New Contact, New Case, and New Note. The main content area displays the account details for 'bca practical 6'. Key fields shown include Type (Other), Phone (1111119999), Website (we can do that), Account Owner (chhaya kh...), Account Site, and Industry (Banking). A 'Related' section lists 'Contacts (0)', 'Opportunities (0)', 'Cases (0)', and 'Notes & Attachments (0)'. An 'Activity' section shows no upcoming or overdue activities. The bottom of the screen shows a taskbar with various application icons and system status indicators.

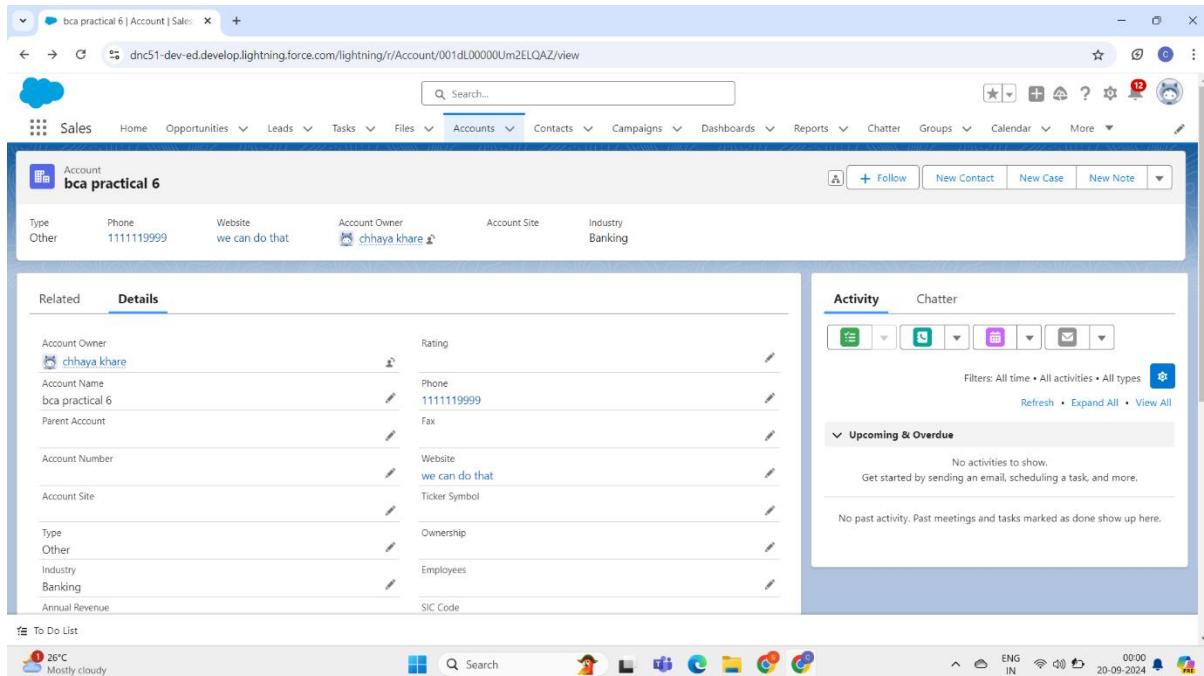
Step 8:-Create a New Contact: In the account's details page, look for the “Contacts” section and click “New” to add a new contact:

This screenshot is identical to the one above, showing the Account details page for 'bca practical 6'. The 'Contacts' section is highlighted, showing '0' contacts. A prominent blue 'New' button is visible next to the 'Contacts (0)' label. The rest of the interface, including the navigation bar, search bar, and activity section, remains the same.

Step 9:-Fill in Contact Information: Enter the contact details, like:



Step 10:-Send an Email: In the contact's page, go to the “Activity” section on the right side:



Step 11:-Here, you'll see an option to send an email:

The screenshot shows the Salesforce Lightning interface for an account named 'bca practical 6'. The account details include Type: Other, Phone: 1111119999, Website: we can do that, Account Owner: chhaya khare, Account Site: Banking. The 'Activity' sidebar is open, showing options like 'Add Email to To Do List', 'Send with Gmail', and 'Set My Email Preferences'. The status bar at the bottom indicates the date as 20-09-2024.

Step 12:-Here, send an email to Contact:

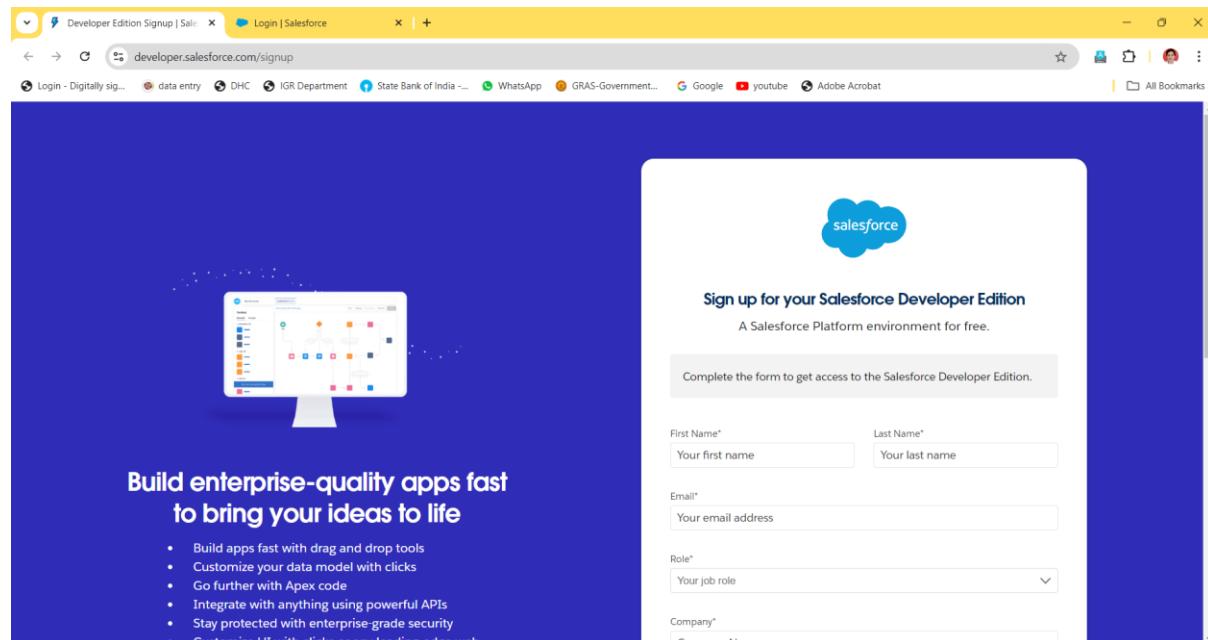
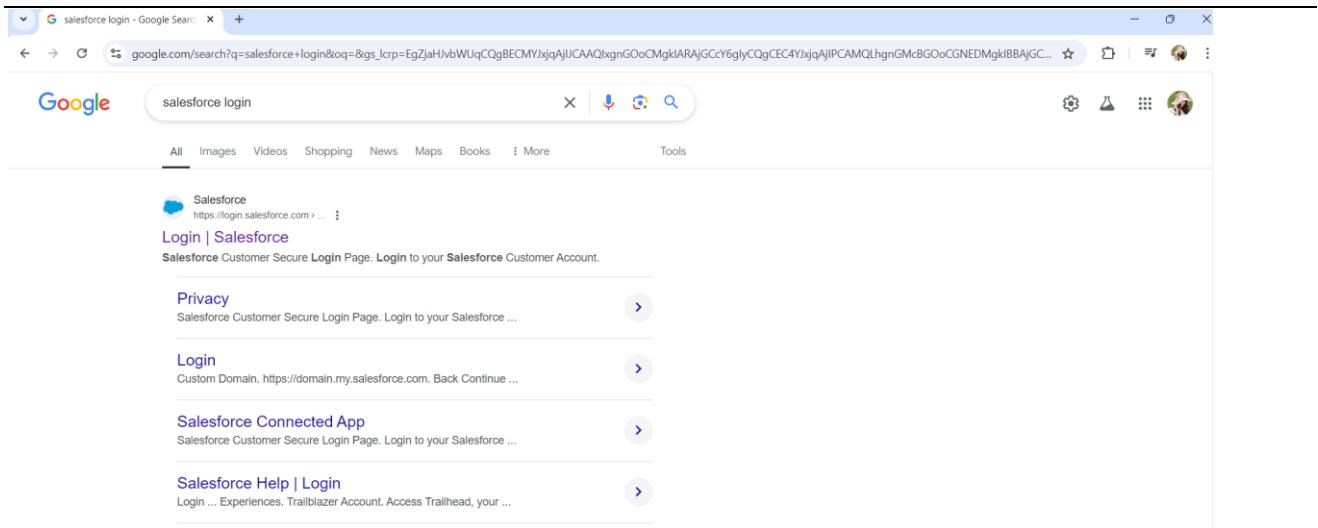
The screenshot shows the Salesforce Lightning interface for an account named 'bca practical 6'. The account details include Type: Other, Phone: 1111119999, Website: we can do that, Account Owner: chhaya khare, Account Site: Banking. The 'Email' modal is open, showing the recipient as 'chhaya khare <chhayakhare2201@gmail.com>'. The status bar at the bottom indicates the date as 20-09-2024.

Practical no:- 7

Practical name:- Data Analytics on the cloud (Salesforce).

A]Salesforce reports:-

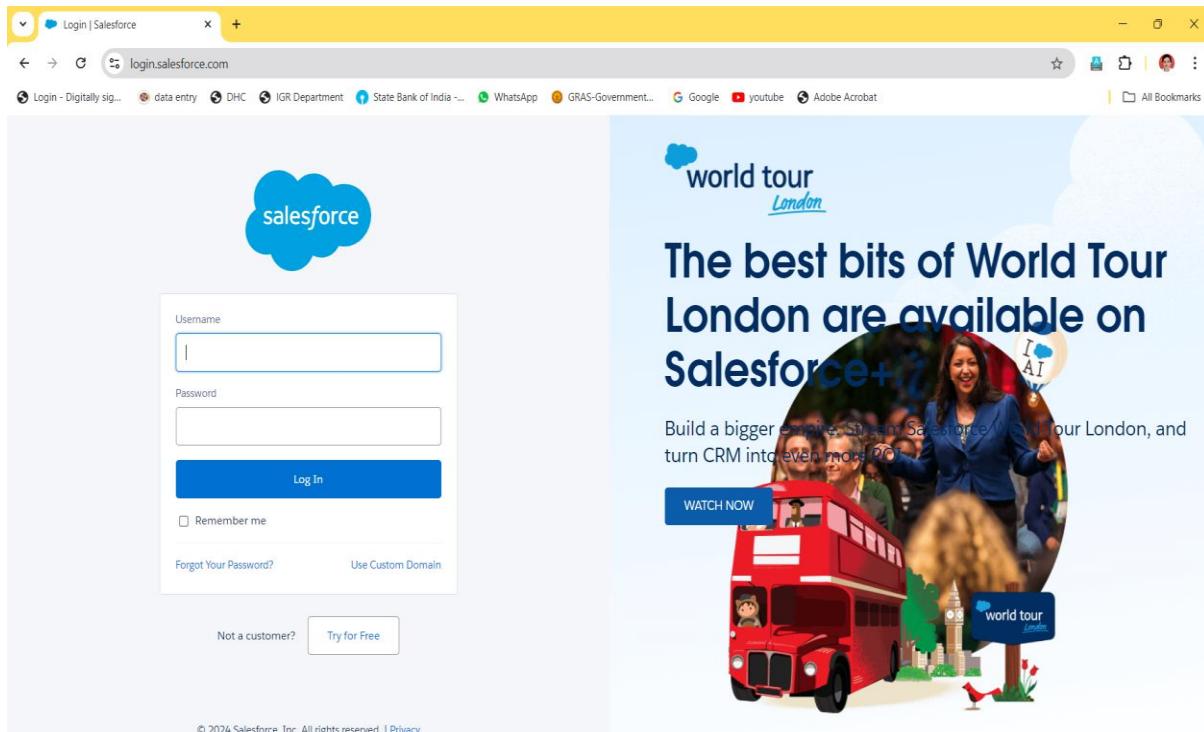
Step 1:-Go to google and search Salesforce & sign in with credentials as requirement.



Note:- after log in user user id is end to your regested gmail ..

- Then log in with that id which is sended to your gmail

- change your password then .



Step 2:- After logging in, your Salesforce homepage will open as follows. Now you have to click on the grid of dots on the top-left corner & search for reports and open it which will open as follows in the images:

The screenshot shows the Salesforce Reports page. The top navigation bar includes links for WhatsApp, Reports | Salesforce, Google, and various Salesforce modules like Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, Groups, Calendar, and More. The main content area displays a table titled 'Recent' under 'REPORTS'. The table columns are Report Name, Description, Folder, Created By, and Created On. One entry is visible: 'Salesforce Practical' created by 'shraddha khare' on '18/9/2024, 10:37 am'. On the left sidebar, there are categories for Reports (Recent, Created by Me, Private Reports, Public Reports, All Reports), Folders (All Folders), and Favorites (All Favorites). The bottom status bar shows system information like currency exchange rates (JPY/INR +0.75%), system icons, and the date/time (18-09-2024, 11:12).

Step 3:-Now click on the “New report” button and selected the type of report you want to create and hit the “Start report” button after which your report will open as follows:

The screenshot shows the Salesforce Report Builder page. The top navigation bar is identical to the previous screenshot. A central modal window titled 'Create Report' is open. On the left, a sidebar lists 'Category' sections: Recently Used, All, and Accounts & Contacts (which is currently selected). Under 'Accounts & Contacts', there are sub-options: Opportunities, Customer Support Reports, Leads, Campaigns, Activities, and Contracts and Orders. The main content area is titled 'Select a Report Type' and contains a table with 'Report Type Name' and 'Category' columns. The first row shows 'Accounts' under 'Standard'. To the right of the table, a 'Details' panel is expanded, showing a section for 'Accounts' (Standard Report Type) with a 'Start Report' button. Below this, there are sections for 'Created By You' and 'Created By Others', both stating 'No Reports Yet'. The bottom status bar shows weather information (27°C Cloudy), system icons, and the date/time (18-09-2024, 10:21).

Step 4:-Now click on the “Add filter” dropdown to apply filters like I’ve applied filters like “rating” and “Warm” after which the report will be sorted according to the filters you’ve applied:

The screenshot shows the Salesforce Report Builder interface. The top navigation bar includes tabs for WhatsApp, Login | Salesforce, Welcome to Salesforce: Verify..., Report Builder | Salesforce, and several other open tabs. The main menu bar has options like Sales, Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, Groups, Calendar, More, and a search bar. Below the menu, a report titled "New Accounts Report" is displayed under the "Accounts" tab. The report preview shows a table with columns: Last Activity, Account Owner, Account Name, Billing State/Province, Type, Rating, and Last Modified Date. There are three rows of data:

| | Last Activity | Account Owner | Account Name | Billing State/Province | Type | Rating | Last Modified Date |
|---|---------------|---------------|-------------------------------------|------------------------|-------------------|--------|--------------------|
| 1 | - | shradha khare | Burlington Textiles Corp of America | NC | Customer - Direct | Warm | 18/09/2024 |
| 2 | - | shradha khare | Grand Hotels & Resorts Ltd | IL | Customer - Direct | Warm | 18/09/2024 |
| 3 | - | shradha khare | University of Arizona | AZ | Customer - Direct | Warm | 18/09/2024 |

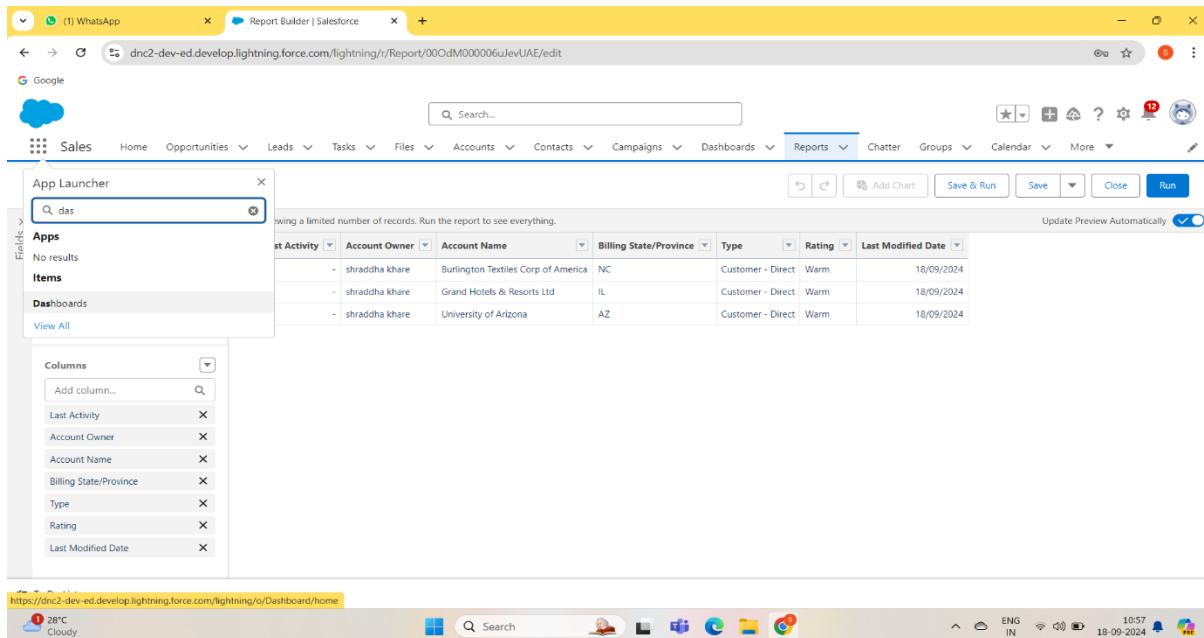
On the left, there's a sidebar with "Show Fields" and "Filters" sections. The "Filters" section contains a dropdown for "Last Activity" set to "Last Activity", and a dropdown for "Rating" set to "equals Warm". A note says "Previewing a limited number of records. Run the report to see everything." On the right, there are buttons for "Add Chart", "Save & Run", "Save", "Close", and "Run". A checkbox for "Update Preview Automatically" is checked. The bottom status bar shows system information: 27°C Cloudy, Search, Microsoft icons, ENG IN, 10:36, 18-09-2024, and a bell icon.

Step 5:-Now you can save the report by clicking on the “Save” button and by giving the report a name or description and saving it in a folder as required. Now you’re done with the reports:

The screenshot shows the "Save Report" dialog box overlaid on the Report Builder interface. The dialog has fields for "Report Name" (Salesforce Practical), "Report Unique Name" (Salesforce_Practical_n1r), "Report Description" (empty), and "Folder" (TYBCA DNM Practicals). It includes "Cancel" and "Save" buttons. The background shows the same report preview and sidebar as the previous screenshot. The bottom status bar is identical to the one in the first screenshot.

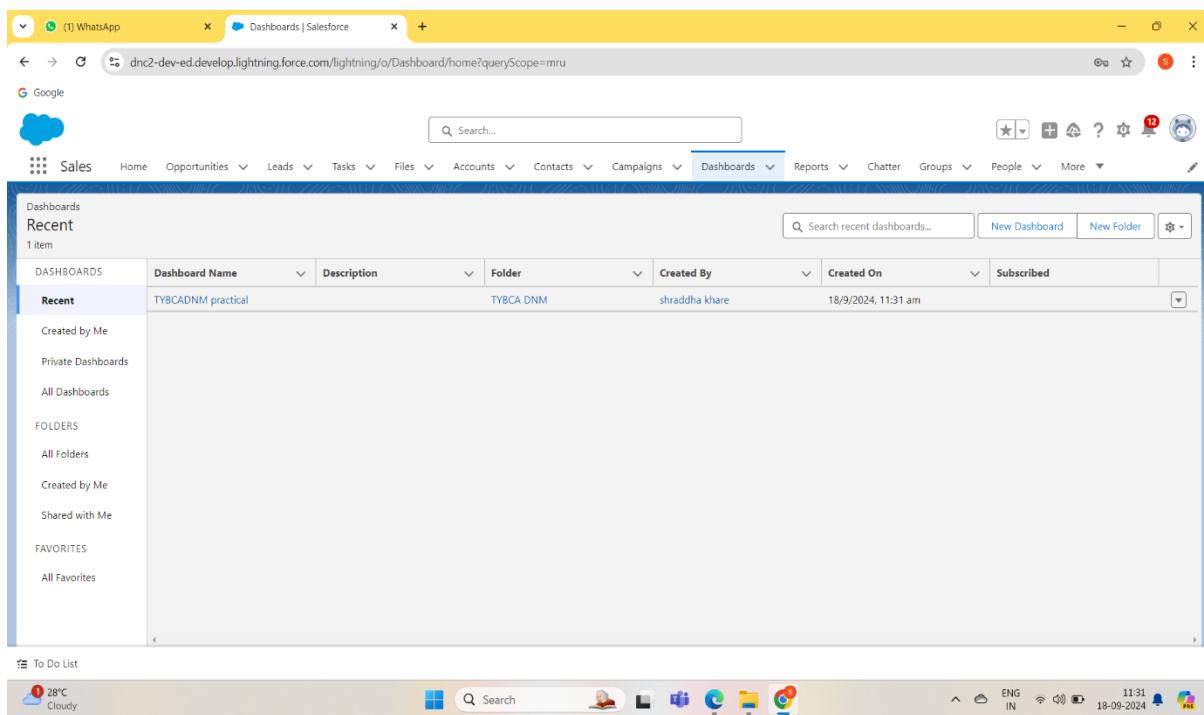
B] Salesforce dashboards:-

Step 1:- Now to work with dashboards in salesforce, click on the same grid of dots on the top left corner and search for “dashboards” and click on the option when it comes up. After that you will see a screen like this containing all your previously created dashboards and their details:



The screenshot shows the Salesforce Report Builder interface. The URL is <https://dnc2-dev-ed.lightning.force.com/lightning//Report/00OdM000006uJevUAE/edit>. The report displays a list of accounts with the following data:

| Last Activity | Account Owner | Account Name | Billing State/Province | Type | Rating | Last Modified Date |
|---------------|---------------|-------------------------------------|------------------------|-------------------|--------|--------------------|
| - | shradha khare | Burlington Textiles Corp of America | NC | Customer - Direct | Warm | 18/09/2024 |
| - | shradha khare | Grand Hotels & Resorts Ltd | IL | Customer - Direct | Warm | 18/09/2024 |
| - | shradha khare | University of Arizona | AZ | Customer - Direct | Warm | 18/09/2024 |

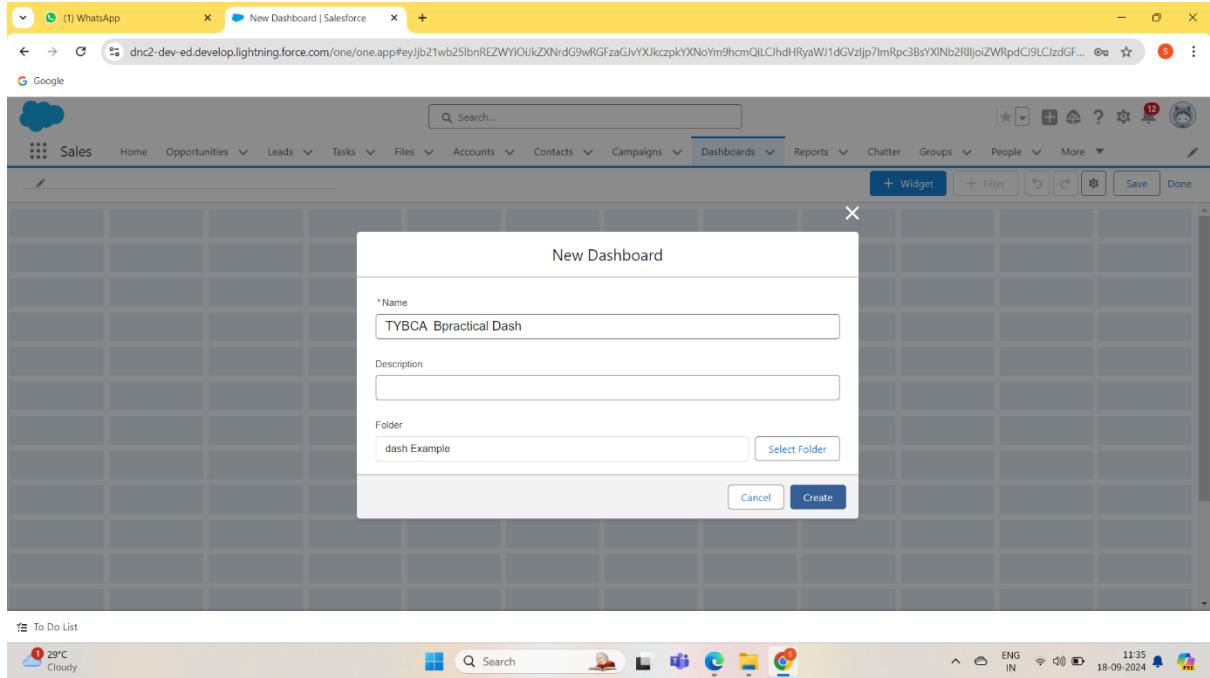


The screenshot shows the Salesforce Dashboards interface. The URL is <https://dnc2-dev-ed.lightning.force.com/lightning/o/Dashboard/home?queryScope=mru>. The dashboard lists recent dashboards:

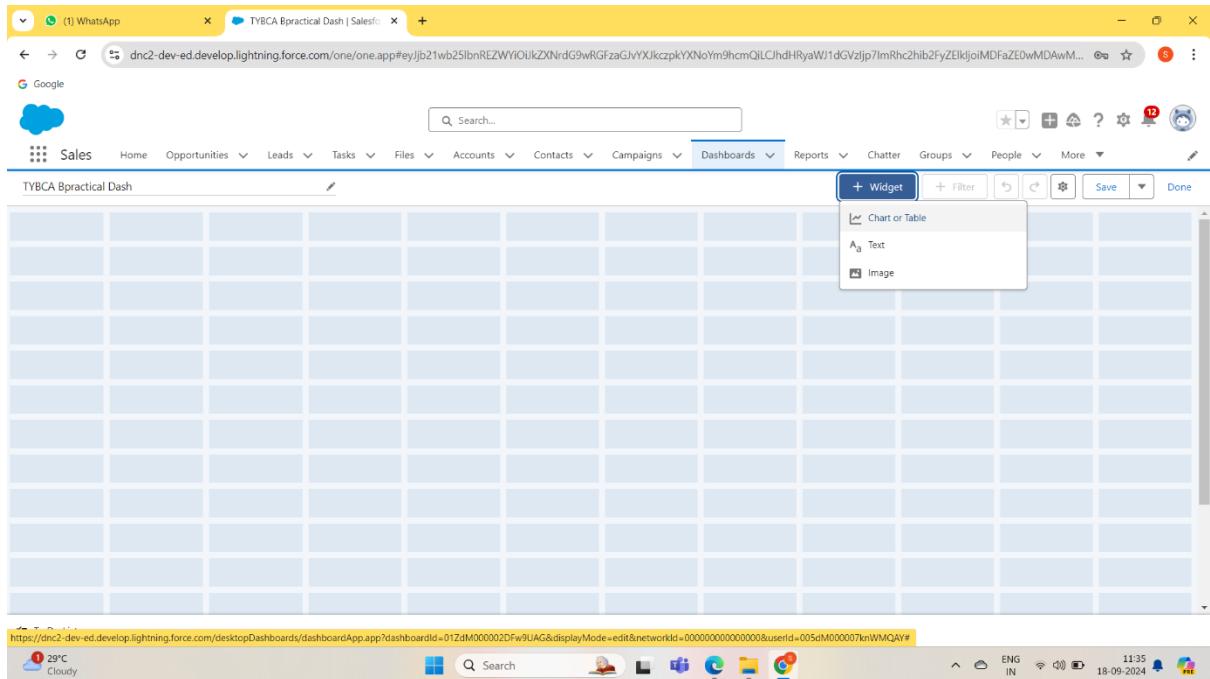
| DASHBOARDS | Dashboard Name | Description | Folder | Created By | Created On | Subscribed |
|------------|--------------------|-------------|--------|---------------|---------------------|------------|
| Recent | TYBCADNM practical | TYBCA DNM | | shradha khare | 18/9/2024, 11:31 am | |

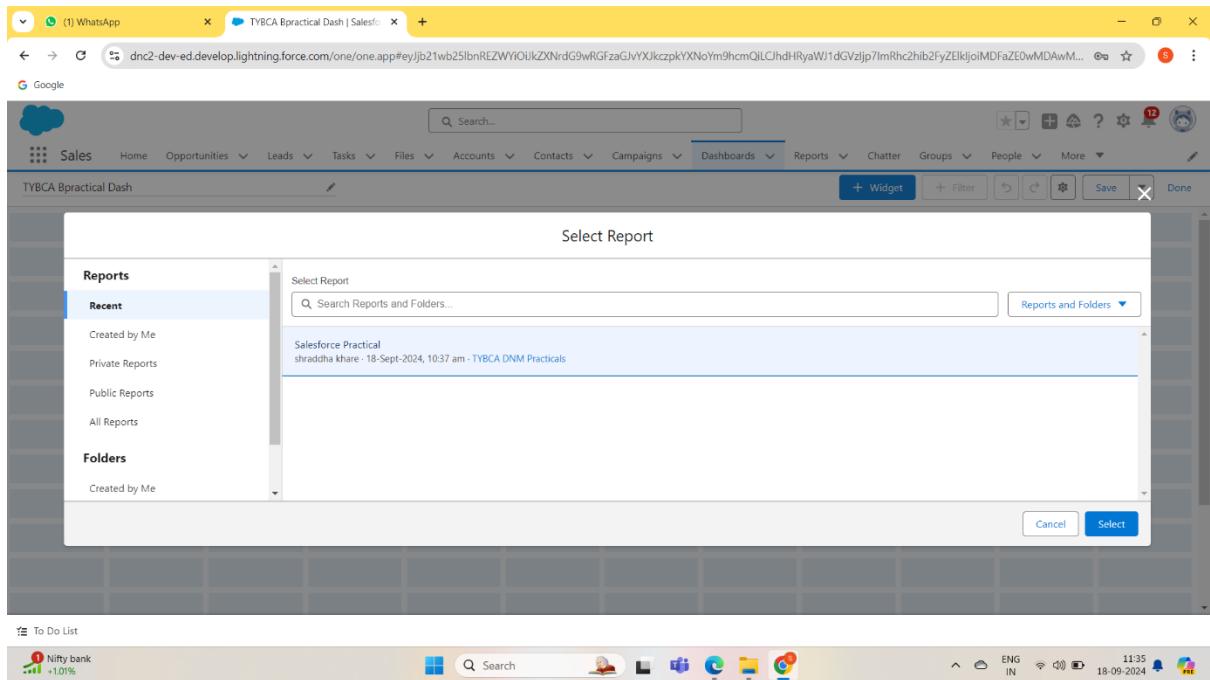
On the left sidebar, there are navigation links for Recent, Created by Me, Private Dashboards, All Dashboards, Folders, All Folders, Created by Me, Shared with Me, Favorites, and All Favorites.

Step 2:-To create a new dashboard, click on the “New Dashboard” button on the top-right and then enter the name and folder location for your dashboard as required:

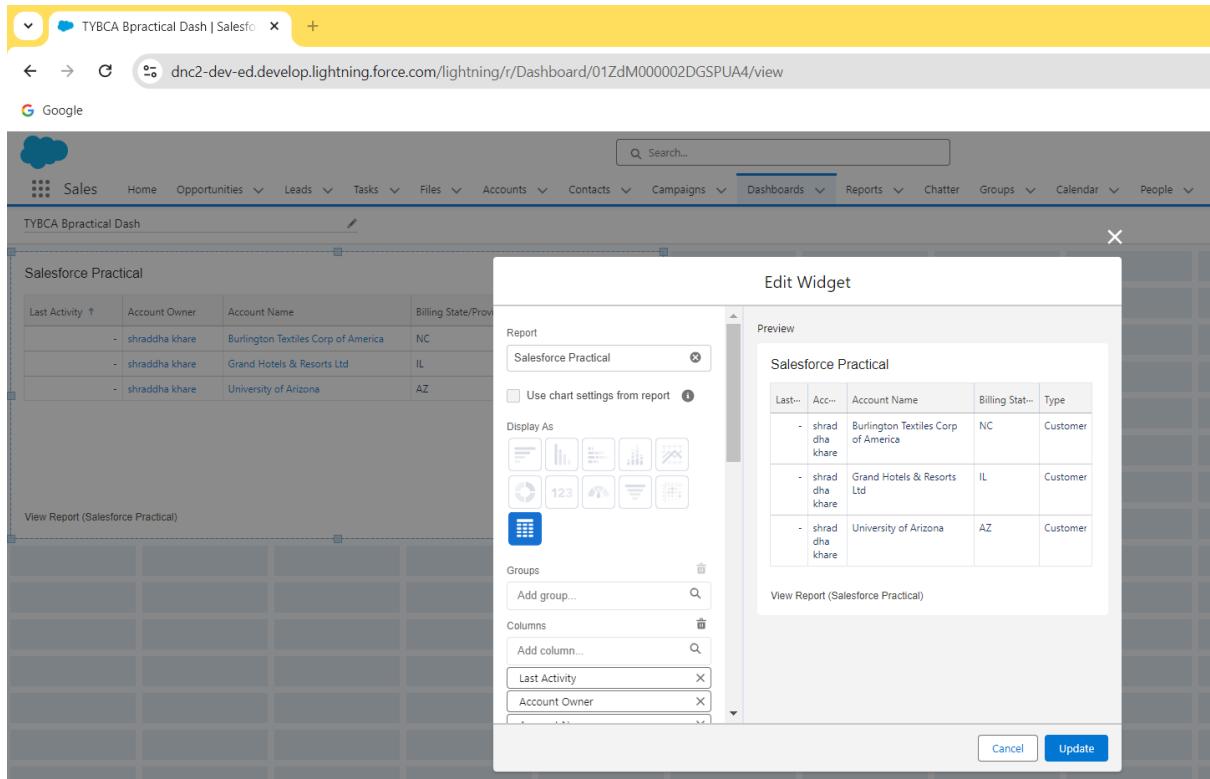


Step 3:-To add a report to your dashboard, click on the “Widget” button and click on “Chart or Table” button and select the report from its respective folders as required by you:





Step 4:-In the “Add Widget” dialog box, you can decide how you want your report to be displayed on your dashboard and then click on “Add” button after which your report will be displayed as follows on your dashboards and you can resize it just like an image:



Salesforce Practical

| Last Activity | Account Owner | Account Name | Billing State/Province | Type |
|---------------|---------------|-------------------------------------|------------------------|-------------------|
| - | shradha khare | Burlington Textiles Corp of America | NC | Customer - Direct |
| - | shradha khare | Grand Hotels & Resorts Ltd | IL | Customer - Direct |
| - | shradha khare | University of Arizona | AZ | Customer - Direct |

View Report (Salesforce Practical)

To Do List

30°C Mostly cloudy

Search

17:18 18-09-2024

Step 5:-You can also add an image to your dashboard by clicking on the “Widget” dropdown and clicking on “image” button:

+ Widget

Chart or Table

Text

Image

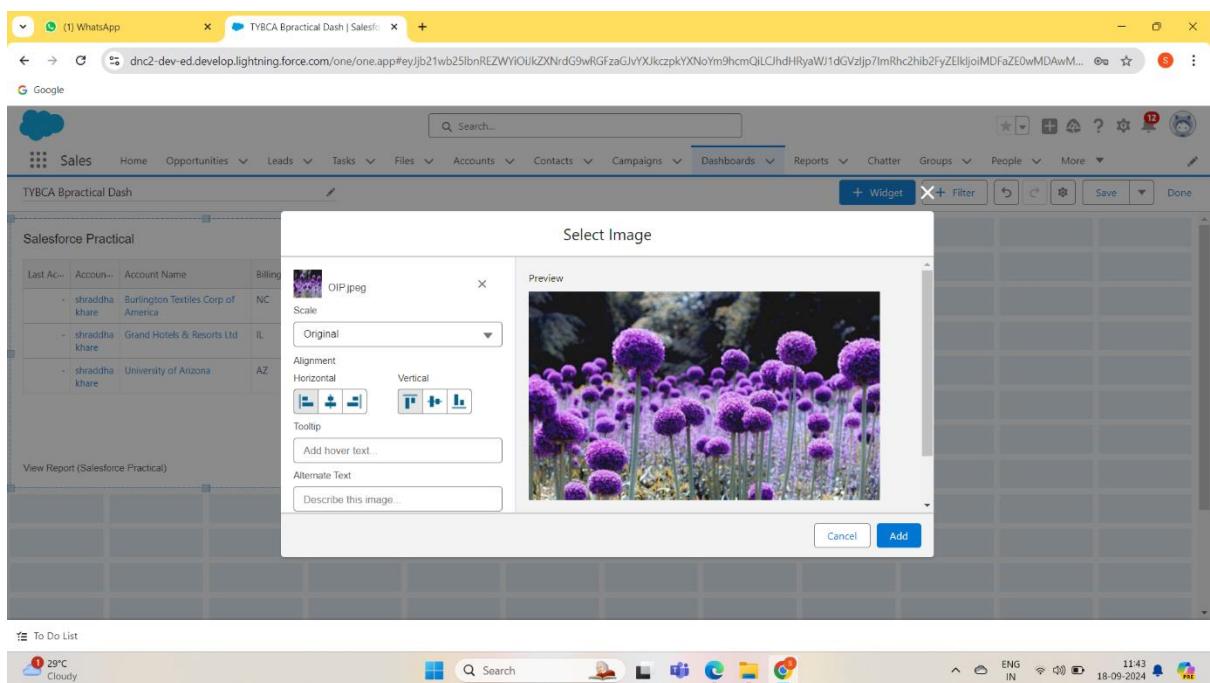
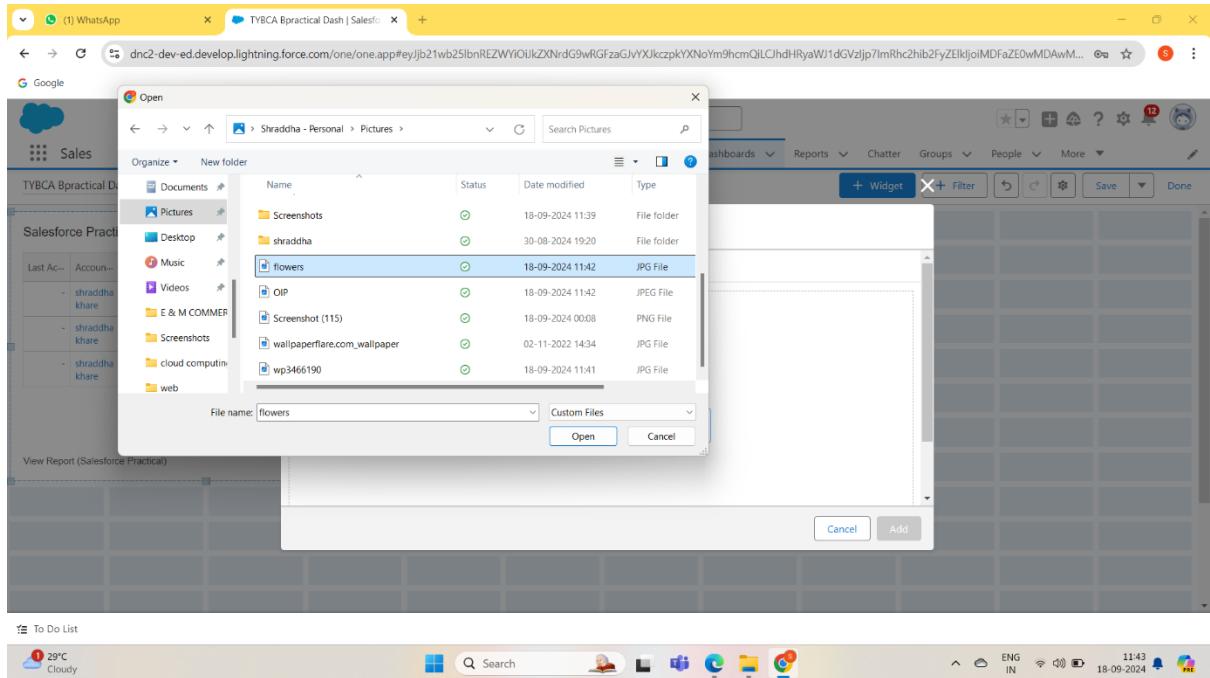
https://dnc2-dev-ed.lightning.force.com/lightning/r/.../view&networkId=00000000000000000000000000000000&userId=005dM000007knWMQAY#

29°C Cloudy

Search

18:49 18-09-2024

Step 6:- You can now browser and select an image you would like to add to your dashboard and then later choose how you want it to appear on your dashboard:



Step 7:- After the process above, this is how your image would look on your dashboard and you can resize it as you like:

The screenshot shows a Salesforce Lightning dashboard titled "Salesforce Practical". On the left, there is a list view titled "Salesforce Practical" with three rows of account data:

| Last Activity | Account Owner | Account Name | Billing State/Province | Type |
|-----------------|---------------|-------------------------------------|------------------------|-------------------|
| - shradha khare | | Burlington Textiles Corp of America | NC | Customer - Direct |
| - shradha khare | | Grand Hotels & Resorts Ltd | IL | Customer - Direct |
| - shradha khare | | University of Arizona | AZ | Customer - Direct |

Below the list view is a large image of purple flowers. The dashboard has a standard Salesforce header with navigation links like Sales, Home, Opportunities, Leads, Tasks, Files, Accounts, Contacts, Campaigns, Dashboards, Reports, Chatter, Groups, Calendar, People, Cases, and Forecasts. There are also buttons for "+ Widget", "+ Filter", "Save", and "Done". The status bar at the bottom shows the date as 18-09-2024 and the time as 18:58.

This screenshot is identical to the one above, but it includes a "Save As" dialog box in the center. The dialog box has fields for "Name" (set to "TYBCA Bpractical Dash"), "Description" (empty), and "Folder" (set to "BDnm"). It also features "Cancel" and "Create" buttons.

The screenshot shows a Salesforce dashboard titled "Salesforce Practical". The dashboard includes a report table with three rows of account data and a decorative image of purple flowers. The report table data is as follows:

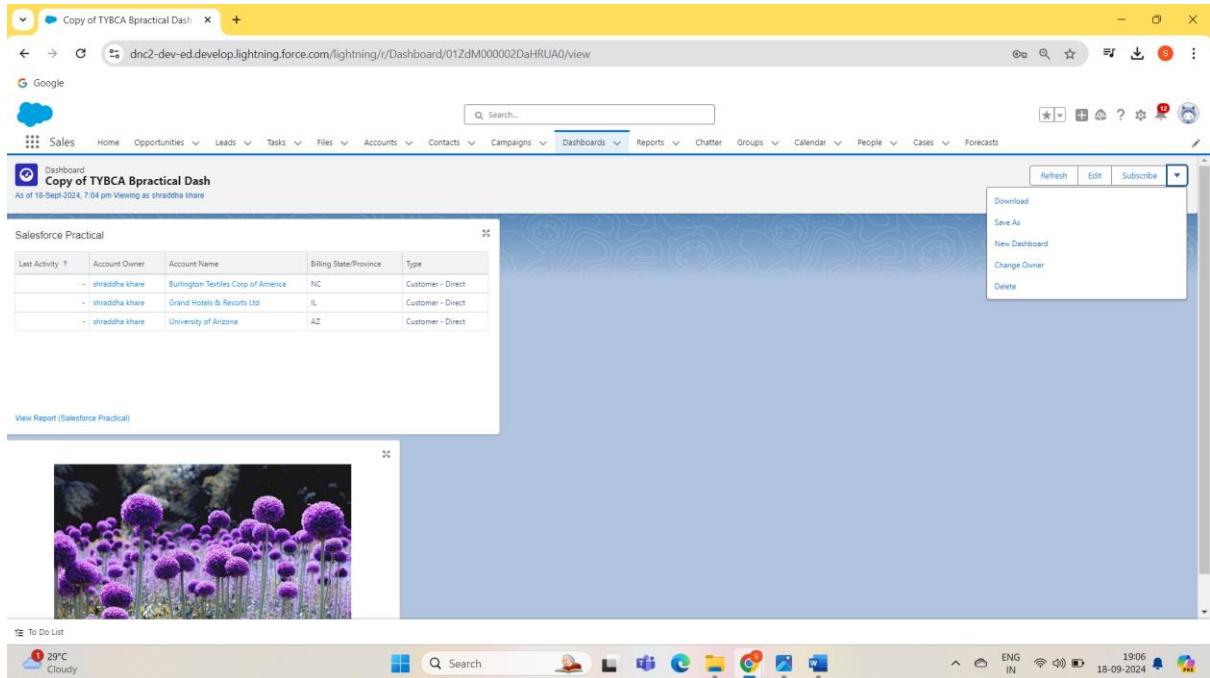
| Last Activity | Account Owner | Account Name | Billing State/Province | Type |
|---------------|---------------|-------------------------------------|------------------------|-------------------|
| - | shradha khare | Burlington Textiles Corp of America | NC | Customer - Direct |
| - | shradha khare | Grand Hotels & Resorts Ltd | IL | Customer - Direct |
| - | shradha khare | University of Arizona | AZ | Customer - Direct |

Below the dashboard, there is a "View Report (Salesforce Practical)" link and a decorative image of purple flowers. The browser address bar shows "dnc2-dev-ed.lightning.force.com/lightning/r/.../edit?navigationLocation=LIST_VIEW_ROW&layoutType=FULL". The operating system taskbar at the bottom shows various application icons and the date/time as 18-09-2024.

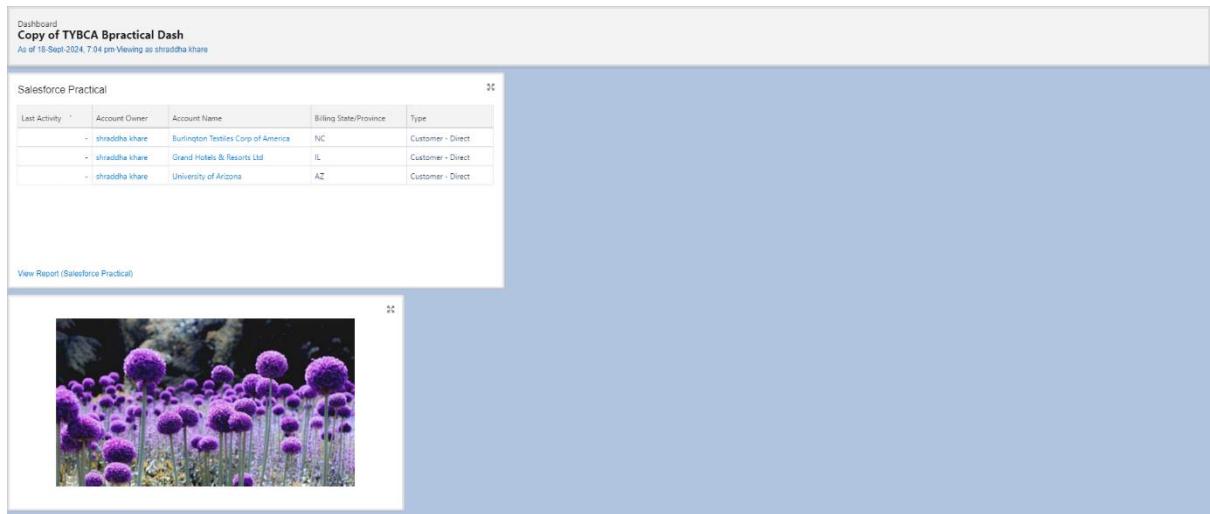
Step 8:-You can now save your dashboard again if you made anything changes by clicking “Save As” button:

The screenshot shows a Salesforce dashboard titled "TYBCA Bpractical Dash". A "Save As" dialog box is open in the foreground, prompting the user to enter a name ("Copy of TYBCA Bpractical Dash") and select a folder ("BDm"). The dashboard itself displays a report table with the same account data as the previous screenshot. The browser address bar shows "dnc2-dev-ed.lightning.force.com/lightning/r/.../view". The operating system taskbar at the bottom shows various application icons and the date/time as 18-09-2024.

Step 9:- Your dashboard is now ready as you like it and now you can download it by clicking a dropdown on the top-right corner of the window and click on the “Download”:



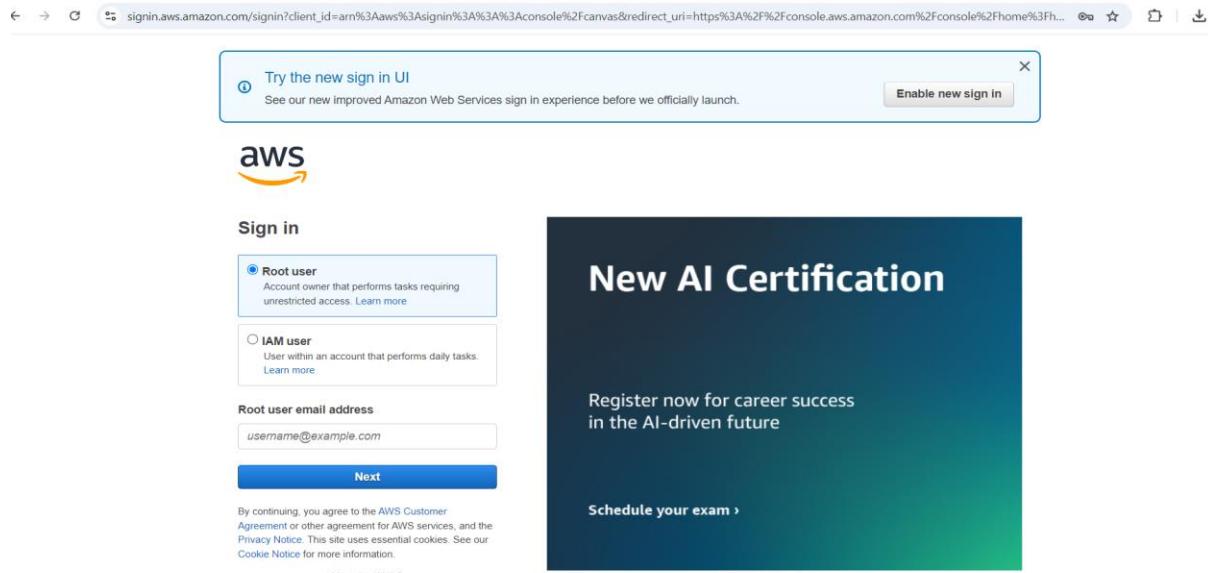
Step 10:- Your downloaded dashboard would look something like this Done:



Practical no:- 8

Practical name:- Introduction to Amazon AWS S3.

Step 1:- search for AWS management console in browser and sign-in or sign-up with your credentialsas required:



Step 2:- create an S3 bucket.

Create bucket option. Give unique Bucket name

The image shows the AWS S3 service dashboard. The sidebar on the left lists options like Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, and Storage Lens. The main area displays a table of 'General purpose buckets' with 5 entries. The columns include Name, AWS Region, IAM Access Analyzer, and Creation date. The buckets listed are 'a-webpage', 'clod3', 'clou1', 'clou2', and 'slayy', all created in 'Europe (Stockholm) eu-north-1' on various dates between August 2024 and September 2024. Buttons for 'Create bucket' and other actions are visible at the top of the table.

The screenshot shows the 'Create bucket' page in the AWS S3 console. The 'General configuration' section is selected. Under 'AWS Region', 'Europe (Stockholm) eu-north-1' is chosen. Under 'Bucket type', 'General purpose' is selected, with a note explaining it's recommended for most use cases. A 'Directory' option is also available. The 'Bucket name' field contains 'aws'. A note states the name must be unique and follow naming rules, with a link to 'See rules for bucket naming'. A 'Copy settings from existing bucket - optional' section allows selecting a bucket to copy settings from, with a 'Choose bucket' button.

- In Object Ownership make ACLs enable

The screenshot shows the 'Object Ownership' section of the 'Create bucket' page. It includes a note about controlling ownership of objects from other accounts and using ACLs. Two options are shown: 'ACLs disabled (recommended)' and 'ACLs enabled'. A warning message encourages disabling ACLs unless individual object access control is needed. The 'Object Ownership' section has two options: 'Bucket owner preferred' (selected) and 'Object writer'. A note states that if new objects have the 'bucket-owner-full-control' canned ACL, they are owned by the bucket owner. A callout box notes that enforcing object ownership requires a specific bucket policy.

- Uncheck all the block all public access. And select acknowledge

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through new access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

⚠️ Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

- Make Bucket Key Enable and on create Bucket option.

Default encryption [Info](#)
Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

- Server-side encryption with Amazon S3 managed keys (SSE-S3)
- Server-side encryption with AWS Key Management Service keys (SSE-KMS)
- Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#).

Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- Disable
- Enable

▶ **Advanced settings**

ⓘ After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) [Create bucket](#)

- Go to properties on your created bucket

Amazon S3 > Buckets > dnc1

dnc1 [Info](#)

Objects | **Properties** | Permissions | Metrics | Management | Access Points

Bucket overview

| | | |
|---|--|---|
| AWS Region Europe (Stockholm) eu-north-1 | Amazon Resource Name (ARN) <code>arn:aws:s3:::dnc1</code> | Creation date September 18, 2024, 21:49:01 (UTC+05:30) |
|---|--|---|

- Scroll down and make static hosting enable and give index document name “index.html”. and save changes.

Services [Search](#) [Alt+S]

Redirect requests to another bucket or domain. [Learn more](#)

For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document
Specify the home or default page of the website.
`index.html`

Error document - optional

- Make a website using html and css and Save it using “index.html” .

For upload the file go to upload and add folder option and add the index.html file folder.

Amazon S3 > Buckets > dnc1 > Upload

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

| Files and folders (0) | | Remove | Add files | Add folder |
|---|--------|--------|-----------|------------|
| All files and folders in this table will be uploaded. | | | | |
| <input type="text"/> Find by name | | < | 1 | > |
| Name | Folder | Type | | |
| No files or folders | | | | |
| You have not chosen any files or folders to upload. | | | | |

- For access the website go to properties and click on Object URL link and see the website.

S3 URI
<s3://dnc1/awss.webp>

Amazon Resource Name (ARN)
[arn:aws:s3:::dnc1/awss.webp](#)

Entity tag (Etag)
[f377121542e3f99b3d78c8aef3bde57](#)

Object URL
<https://dnc1.s3.eu-north-1.amazonaws.com/awss.webp>

Properties Permissions Versions

Object overview

Owner
0473c78f12663d36d11c89b5d34c4afed08c5ab3a7b77a716ca784603c730a43

AWS Region
Europe (Stockholm) eu-north-1

Last modified
September 18, 2024, 21:55:45 (UTC+05:30)

Size
189.5 KB

Type
webp

Key
[awss.webp](#)

- After click on link display see your website.

