

ukcpzsxcl

April 17, 2024

Breadth First Search(BFS)

```
[ ]: graph = {
    'A' : ['B', 'C'],
    'B' : ['D', 'E'],
    'C' : ['F'],
    'D' : [],
    'E' : ['F'],
    'F' : []
}
visited = []
queue = []
def bfs(visited, graph, node):
    visited.append(node)
    queue.append(node)
    while queue:
        s = queue.pop(0)
        print(s, end = " ")
        for neighbour in graph[s]:
            if neighbour not in visited:
                visited.append(neighbour)
                queue.append(neighbour)

bfs(visited, graph, 'A')
```

A B C D E F

Depth-first Search(DFS)

```
[ ]: graph = {
    'A' : ['B', 'C'],
    'B' : ['D', 'E'],
    'C' : ['F'],
    'D' : [],
    'E' : ['F'],
    'F' : []
}

visited = set()
```

```
def dfs(visited, graph, node):
    if node not in visited:
        print (node)
        visited.add(node)
        for neighbour in graph[node]:
            dfs(visited, graph, neighbour)

print("Following is the Path using Depth-First Search")
dfs(visited, graph, 'A')
```

Following is the Path using Depth-First Search

A
B
D
E
F
C

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April 19, 2024

```
[2]: import heapq

class Node:
    def __init__(self, position, parent=None):
        self.position = position
        self.parent = parent
        self.g = 0
        self.h = 0
        self.f = 0

    def __eq__(self, other):
        return self.position == other.position

    def __lt__(self, other):
        return self.f < other.f

def astar(grid, start, goal):
    open_list = []
    closed_list = set()
    start_node = Node(start)
    goal_node = Node(goal)
    heapq.heappush(open_list, (0, start_node))
    while open_list:
        current_node = heapq.heappop(open_list)[1]
        closed_list.add(current_node.position)
        if current_node == goal_node:
            path = []
            while current_node is not None:
                path.append(current_node.position)
                current_node = current_node.parent
            return path[::-1]
        children = []
        for new_position in [(0, -1), (0, 1), (-1, 0), (1, 0)]:
            node_position = (current_node.position[0] + new_position[0],
                             current_node.position[1] + new_position[1])
            if (0 <= node_position[0] < len(grid)) and \
               (0 <= node_position[1] < len(grid[0])) and \
               (grid[node_position[0]][node_position[1]] != 1):
                children.append(Node(node_position, current_node))
    return None
```

```

        (grid[node_position[0]][node_position[1]] == 0) and \
        (node_position not in closed_list):
            new_node = Node(node_position, current_node)
            children.append(new_node)
    for child in children:
        child.g = current_node.g + 1
        child.h = ((child.position[0] - goal_node.position[0]) ** 2) + \
                  ((child.position[1] - goal_node.position[1]) ** 2)
        child.f = child.g + child.h
        for open_node in open_list:
            if child == open_node[1] and child.g > open_node[1].g:
                continue
        heapq.heappush(open_list, (child.f, child))
    return None
grid = [
    [0, 0, 0, 0, 0],
    [0, 1, 1, 1, 0],
    [0, 0, 0, 0, 0],
    [0, 1, 1, 1, 0],
    [0, 0, 0, 0, 0]
]
start = (0, 0)
goal = (4, 4)

path = astar(grid, start, goal)
if path:
    print("Path found:", path)
else:
    print("No path found.")

```

Path found: [(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 4), (2, 4), (3, 4), (4, 4)]

[]:

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```
[ ]: x=[]
n=int(input("Enter how many no you want for Selection Sorting "))
for i in range(n):
    print("Enter the Element",i,": ")
    a=int(input(""))
    x.append(a)

print("unsorted element are", x)
for i in range(0,len(x)-1):
    for j in range(i+1,len(x)):
        if x[i]>x[j]:
            c=x[i]
            x[i]=x[j]
            x[j]=c
```

Enter the Element 0 :

5

Enter the Element 1 :

7

Enter the Element 2 :

8

Enter the Element 3 :

2

Enter the Element 4 :

4

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```
[ ]: global N
N = 4
def printSolution(board):
    for i in range(N):
        for j in range(N):
            print (board[i][j],end=' ')
    print()

def isSafe(board, row, col):
    for i in range(col):
        if board[row][i] == 1:
            return False

    for i, j in zip(range(row, -1, -1), range(col, -1, -1)):
        if board[i][j] == 1:
            return False
    for i, j in zip(range(row, N, 1), range(col, -1, -1)):
        if board[i][j] == 1:
            return False
    return True

def solveNQUtil(board, col):
    if col >= N:
        return True
    for i in range(N):
        if isSafe(board, i, col):
            board[i][col] = 1
            if solveNQUtil(board, col + 1) == True:
                return True
            board[i][col] = 0
    return False

def solveNQ():
    board = [ [0, 0, 0, 0],
              [0, 0, 0, 0],
              [0, 0, 0, 0],
              [0, 0, 0, 0]
```

```
]

if solveNQUtil(board, 0) == False:
    print ("Solution does not exist")
    return False

printSolution(board)
return True

solveNQ()
```

```
0 0 1 0
1 0 0 0
0 0 0 1
0 1 0 0
```

```
[ ]: True
```

b8riiakzt

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```
[ ]: def greet(bot_name,birth_year):
    print("Hello, my name is ",bot_name, format(bot_name))
    print("I was created in {0}", format(birth_year))

def remind_name():
    print("Please, remind me your name")
    name=input()
    print("What a great name you have, ",name,"!", format(remind_name))

def guess_age():
    print("Let me guess your age")
    print("Enter remainder of dividing your age by 3,5 and 7")
    rem3=int(input())
    rem5=int(input())
    rem7=int(input())
    age=(rem3*70+rem5*21+rem7*15)%105
    print("Your age is",age,", that's great time to start programming!")

def count():
    print("How I will prove to you that I can count to any number you want")
    num=int(input())
    count=0
    while count<=num:
        print("{0}!", format(count))
        count+=1

def test():
    print("let test your program knowldege")
    print("Why we do you use method?")
    print("1. To repeat a statement in multiple time")
    print("2. To decompose a program into sevaral small subroutine")
    print("3. To determine the execution time of a program")
    print("4. To interupt the execution of a program")
    answer=2
    guess=int(input())
    while guess!=answer:
        print("Please, try again")
```

```
guess=int(input())
print("Complete, have a nice day")

def end():
    print("Congratulations, you won")

greet('TE-Chatbot','2024')
remind_name()
guess_age()
count()
test()
end()
```

Hello, my name is TE-Chatbot
I was created in {0} 2024
Please, remind me your name

[]:

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```
[ ]: problem_dict = {
    "Printer not working": "Check that it's turned on and connected to the network",
    "Can't log in": "Make sure you're using the correct username and password",
    "Software not installing": "Check that your computer meets the system requirements",
    "Internet connection not working": "Restart your modem or router",
    "Email not sending": "Check that you're using the correct email server settings"
}

def handle_request(user_input):
    if user_input.lower() == "exit":
        return "Goodbye!"
    elif user_input in problem_dict:
        return problem_dict[user_input]
    else:
        return "I'm sorry, I don't know how to help with that problem."

while True:
    user_input = input("What's the problem? Type 'exit' to quit. ")
    response = handle_request(user_input)
    print(response)
```

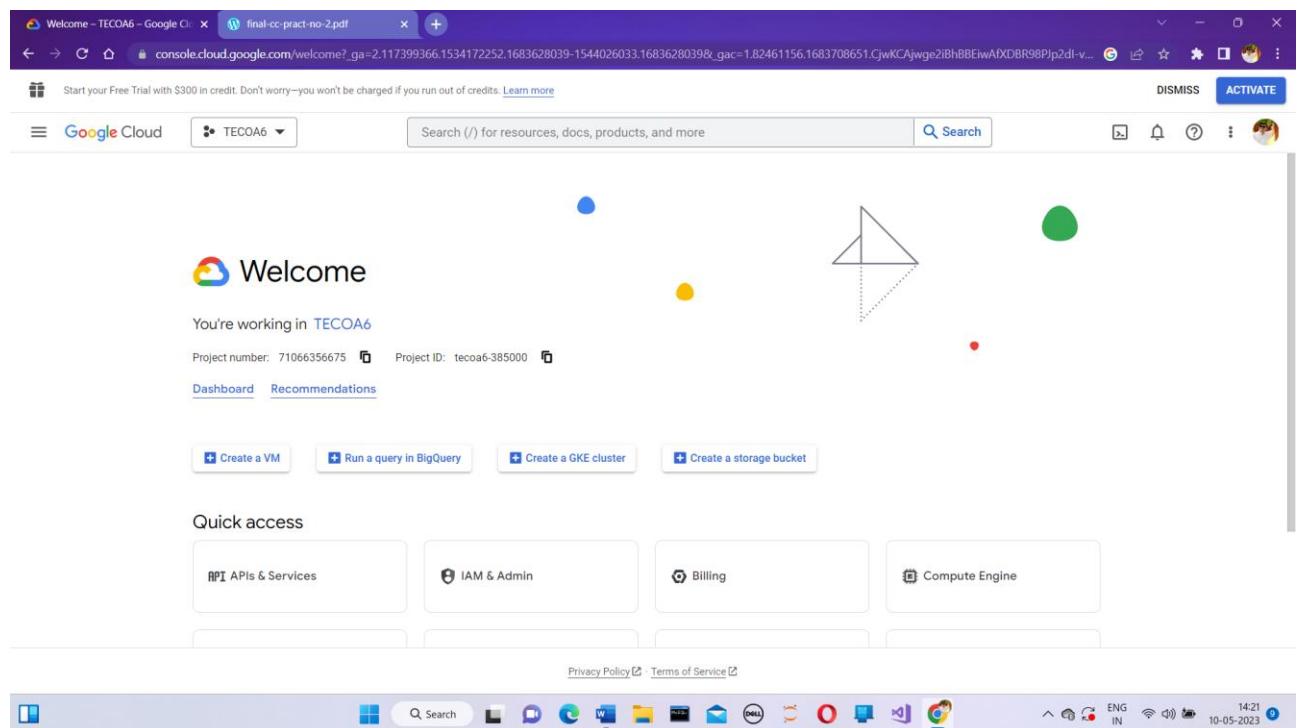
Name:-

Roll No.:-

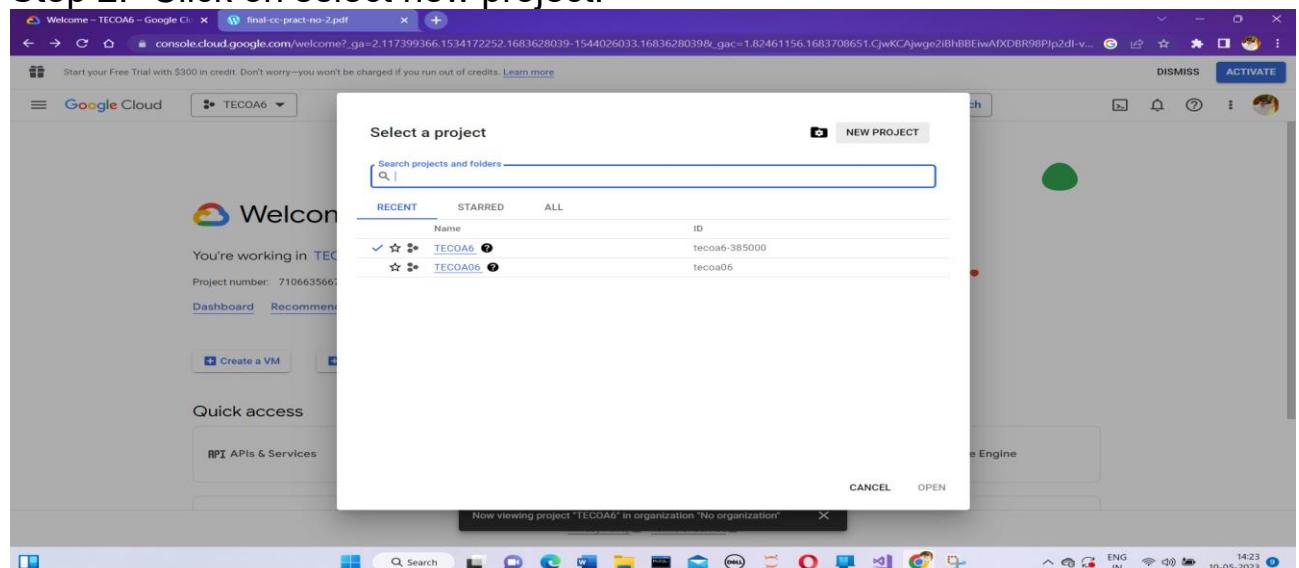
Div:-

Title:- Installation and configure Google app engine

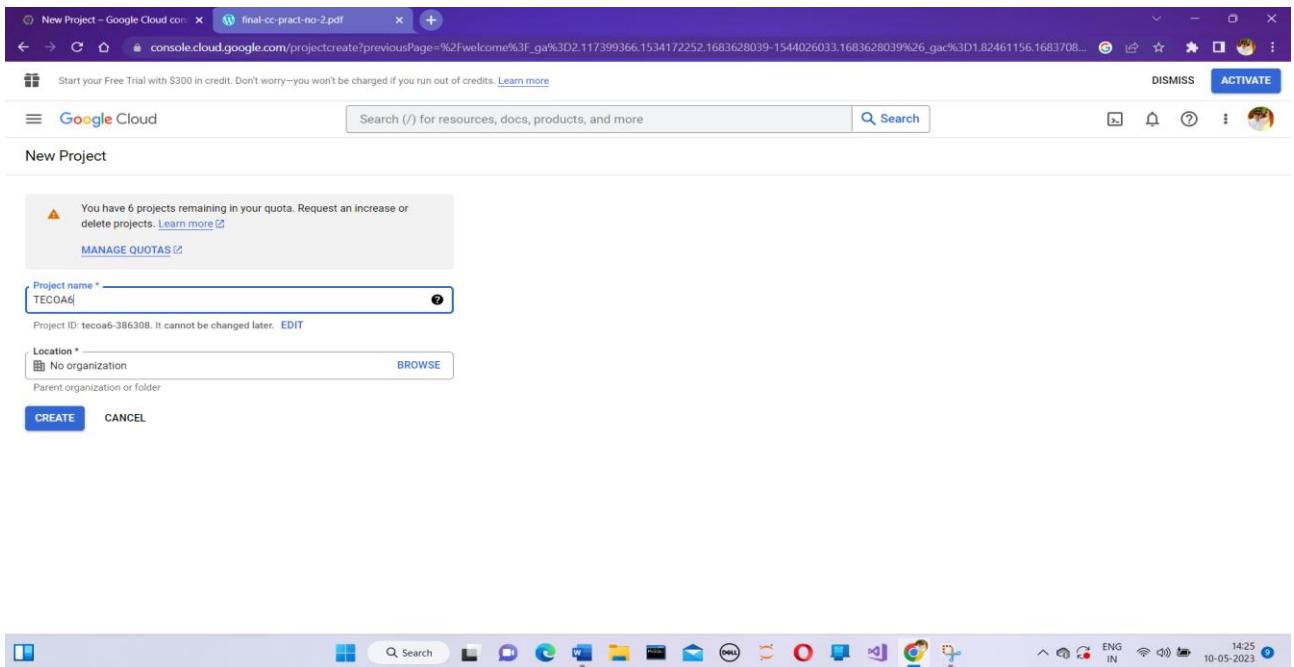
Step 1:- Search Google Cloud Platform in a any search engine& Click on Console.



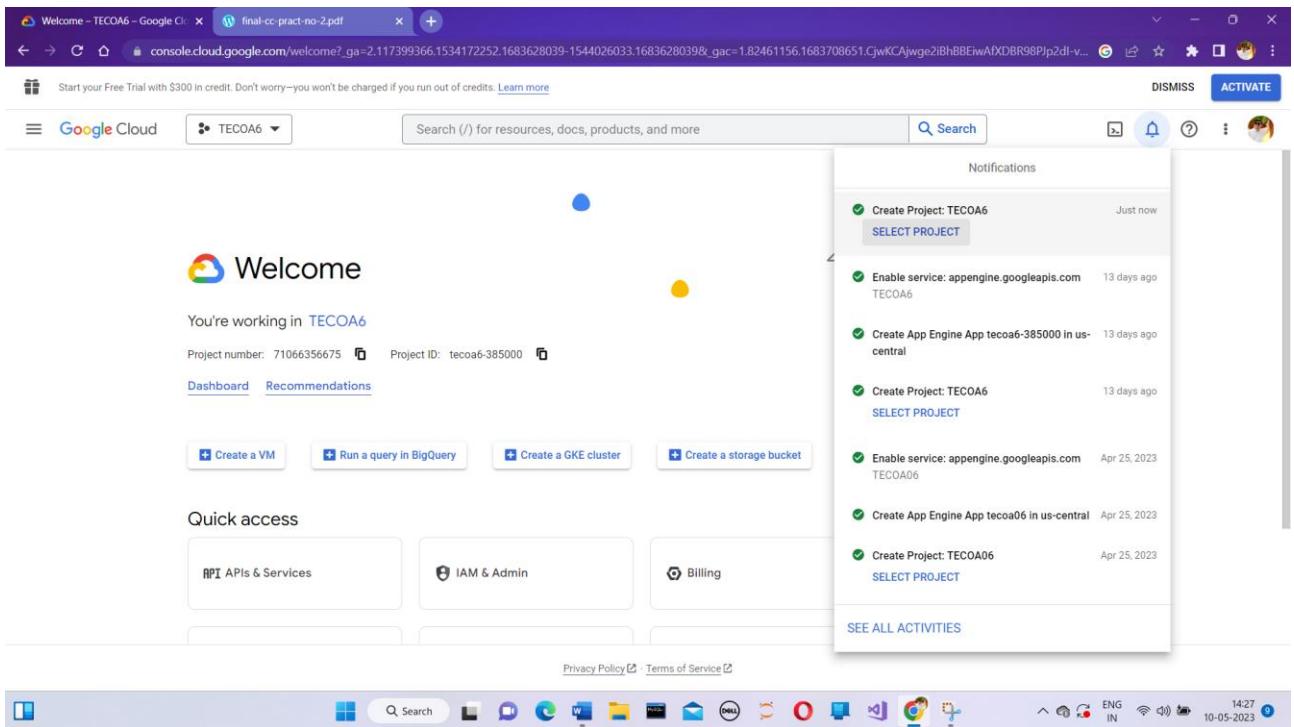
Step 2:- Click on select new project.



Step3:- Give Project name and click on create.



Step4:- Click on select project



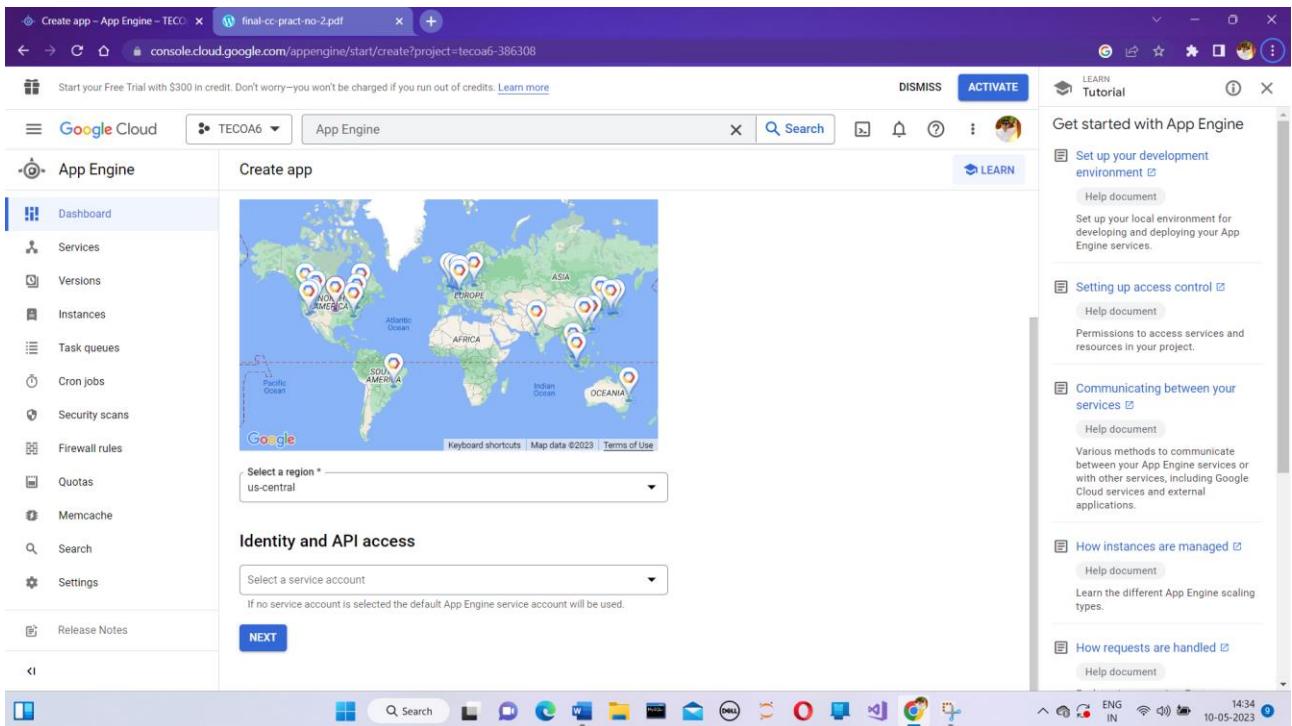
Step5:- In a search bar type search App Engine

The screenshot shows the Google Cloud Platform dashboard for project TECOA6. The search bar at the top contains the query 'App Engine'. The main content area displays the 'App Engine' page, which includes sections for 'PROJECTS & PAGES' (Application Settings, App Engine), 'DOCUMENTATION & TUTORIALS' (Run a Python web application on Google Compute Engine and Cloud SQL, Create a client-server application on Compute Engine, App Engine Application Platform, App Engine documentation), and 'MARKETPLACE' (Compute Engine, Storage). On the right side, there is a sidebar titled 'Google Cloud Platform status' showing 'Multiple Products' and 'Google Cloud services in the europe-west9-a region are impacted'.

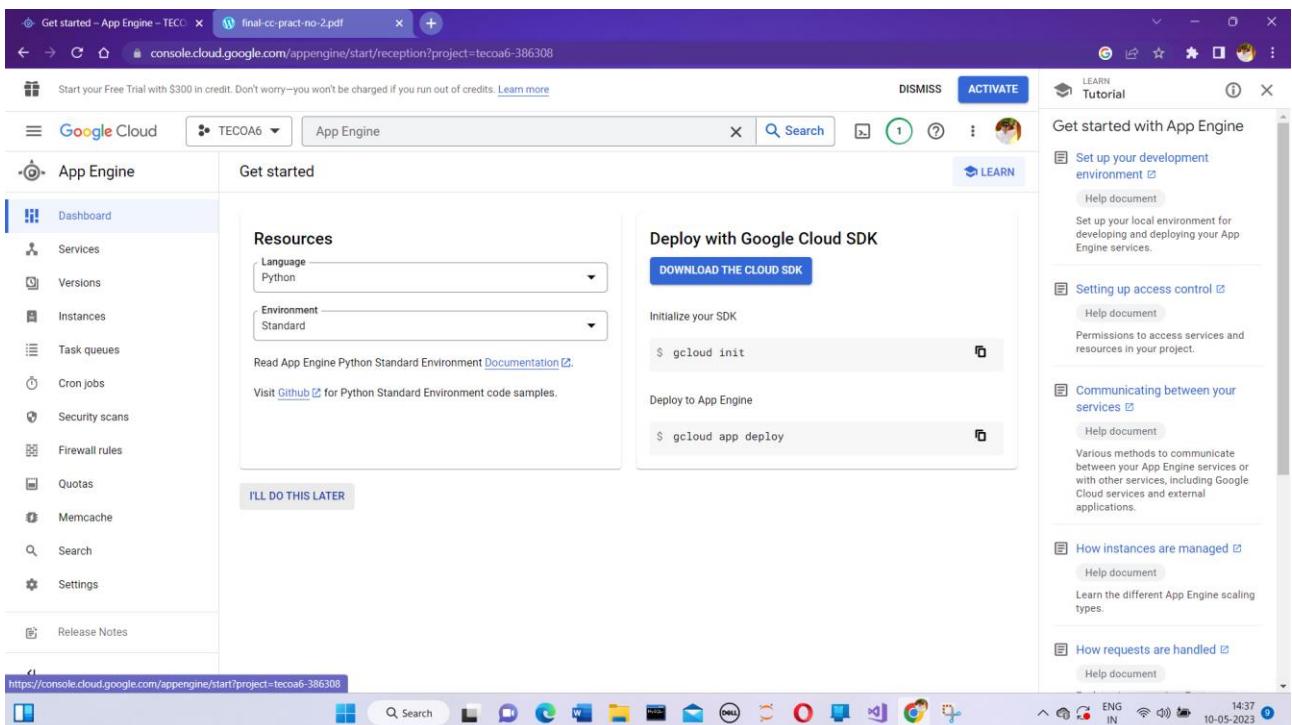
Step 6:-Click on App Engine and Following screen will appear& Click on Create Application.

The screenshot shows the 'App Engine' service dashboard. The left sidebar lists various service management options: Dashboard, Services, Versions, Instances, Task queues, Cron jobs, Security scans, Firewall rules, Quotas, Memcache, Search, Settings, and Release Notes. The main content area features a 'Welcome to App Engine' message: 'Build scalable apps in any language on Google's infrastructure' with a prominent 'CREATE APPLICATION' button. To the right, there is a 'LEARN' section titled 'Get started with App Engine' containing links to help documents for setting up development environment, access control, communicating between services, managing instances, and handling requests.

Step 7:- Click on next



Step 8:- Scroll down and click on I'll do this later.



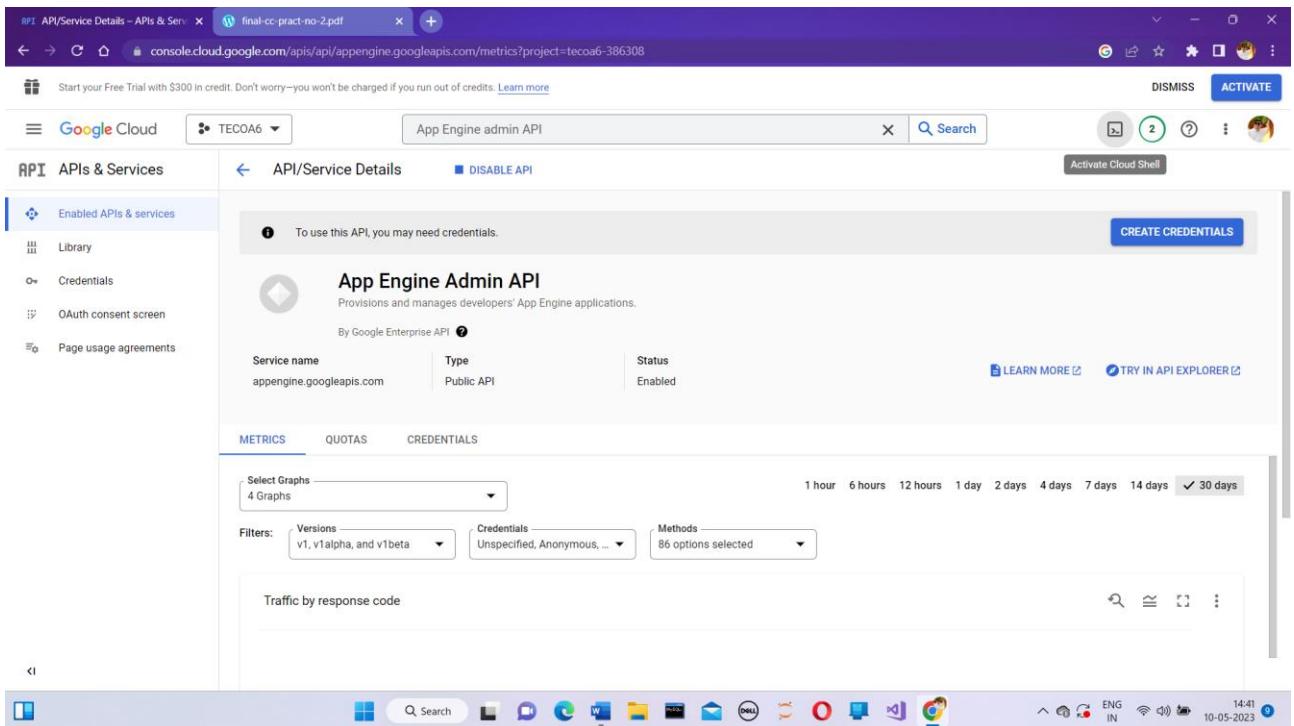
Step 9:- In search bar type App Engine Admin API.

The screenshot shows the Google Cloud Console interface. The search bar at the top contains the query "App Engine Admin API". The results page displays several items under the "DOCUMENTATION & TUTORIALS" section, including "Google App Engine Admin API documentation", "App Engine Admin API | Google Cloud", and "REST Resource: apps | App Engine Admin API". Below this is the "MARKETPLACE" section, which lists "App Engine Admin API" (Google Enterprise API), "App Engine" (Google), and "Cloud Endpoints" (Google). On the right side of the screen, there is a sidebar titled "Get started with App Engine" containing links like "Set up your development environment", "Setting up access control", and "Communicating between your services". The bottom status bar shows the URL "https://console.cloud.google.com/marketplace/product/google/appengine.googleapis.com?q=search&referrer=search&project=tecoa6-386308" and the date "10-05-2023".

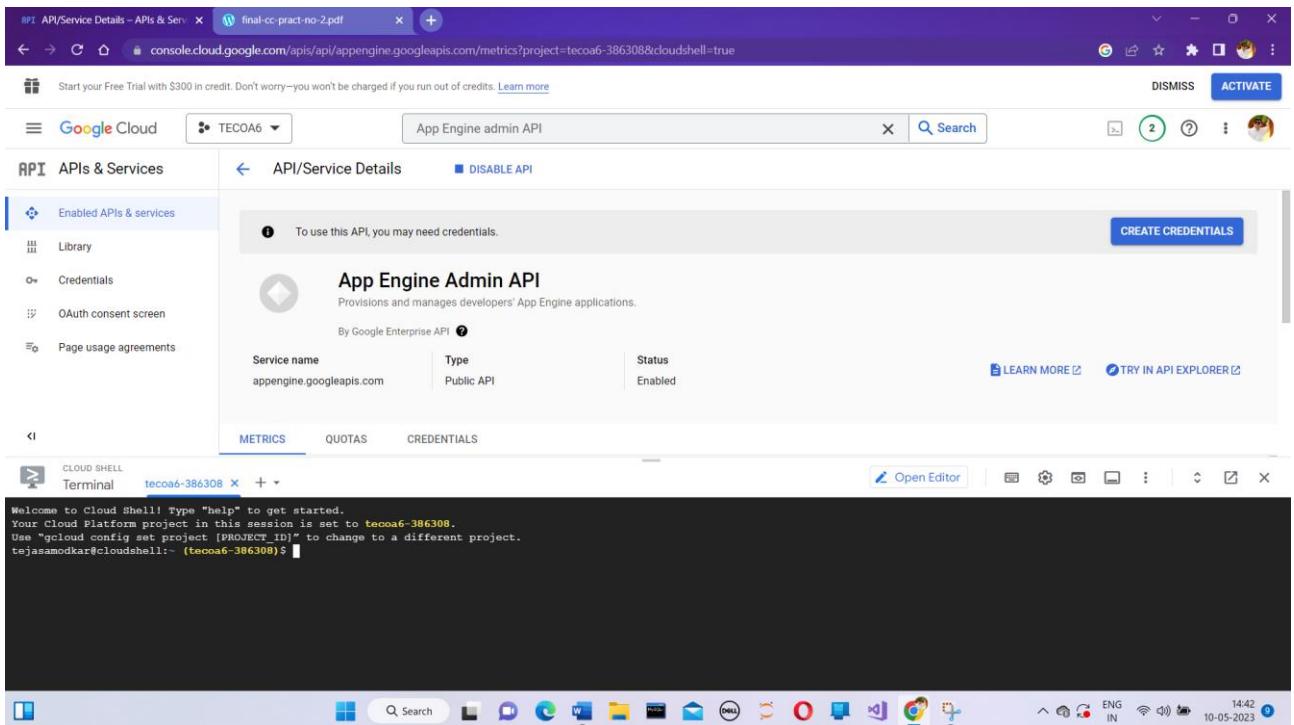
Step 10:- Click Enables

The screenshot shows the Google Cloud Marketplace product details page for the "App Engine Admin API". The page features a large icon of a white diamond shape on a grey background. The title "App Engine Admin API" is displayed above the subtitle "Google Enterprise API". A brief description states "Provisions and manages developers' App Engine applications." Below this are two buttons: "ENABLE" and "TRY THIS API". A note below the buttons says "Click to enable this API". At the bottom of the main content area, there are tabs for "OVERVIEW", "DOCUMENTATION", and "RELATED PRODUCTS". The "OVERVIEW" tab is selected. The "Additional details" section includes information such as Type: SaaS & APIs, Last updated: 7/22/22, Category: Compute, Google Enterprise APIs, and Service name: appengine.googleapis.com. The bottom status bar shows the URL "https://console.cloud.google.com/marketplace/product/google/appengine.googleapis.com?q=search&referrer=search&project=tecoa6-386308" and the date "10-05-2023".

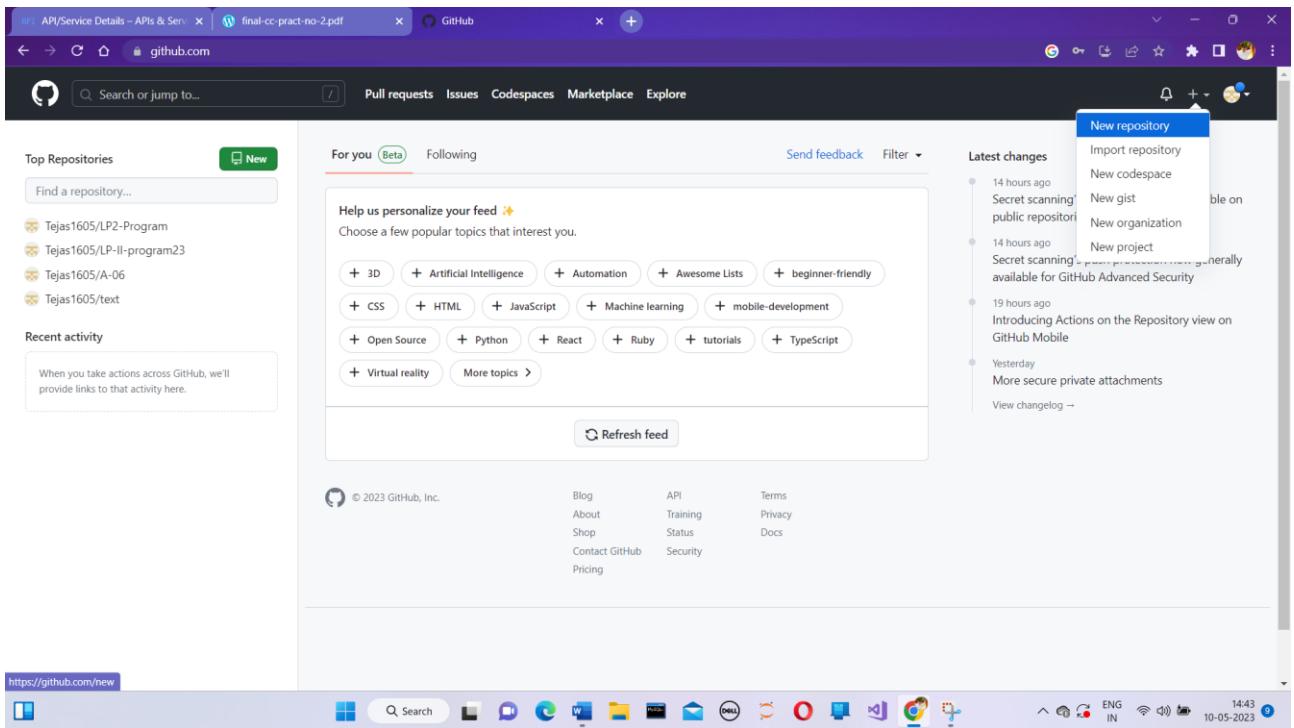
Step 11:- Click Activate Cloud Shell:-



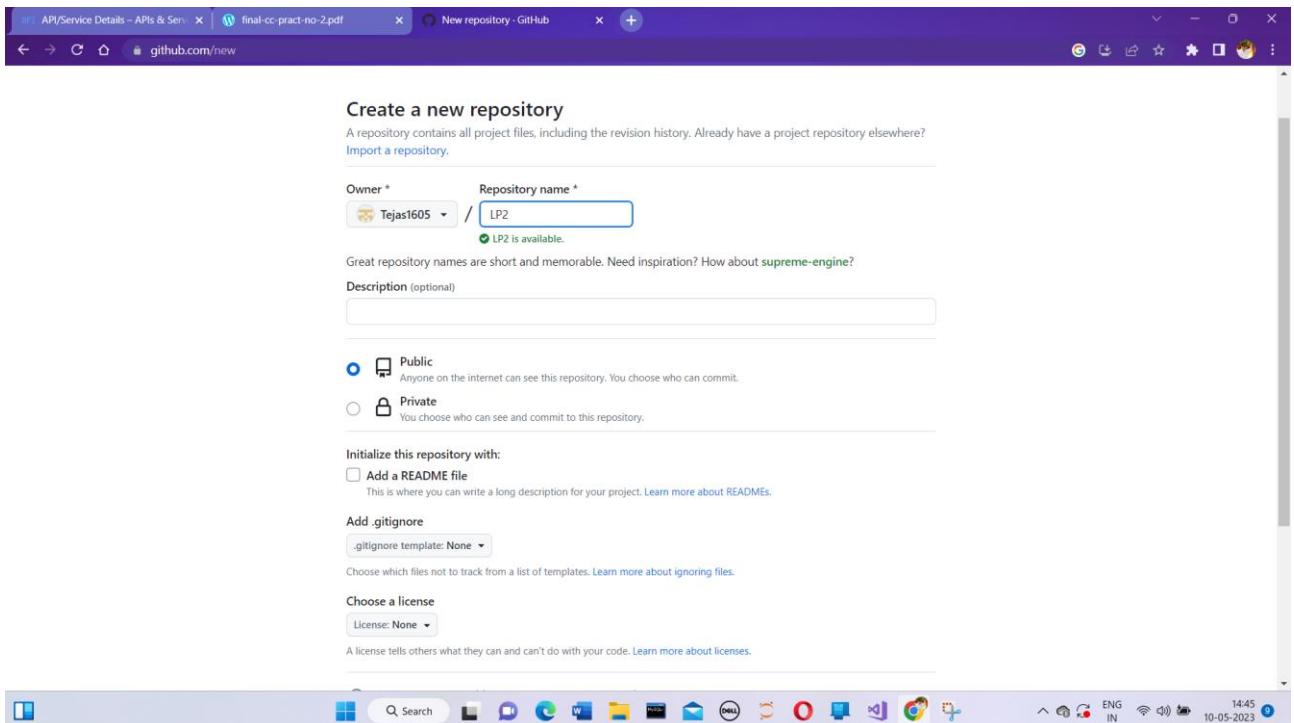
Step 12 :- Following screen will appear:-



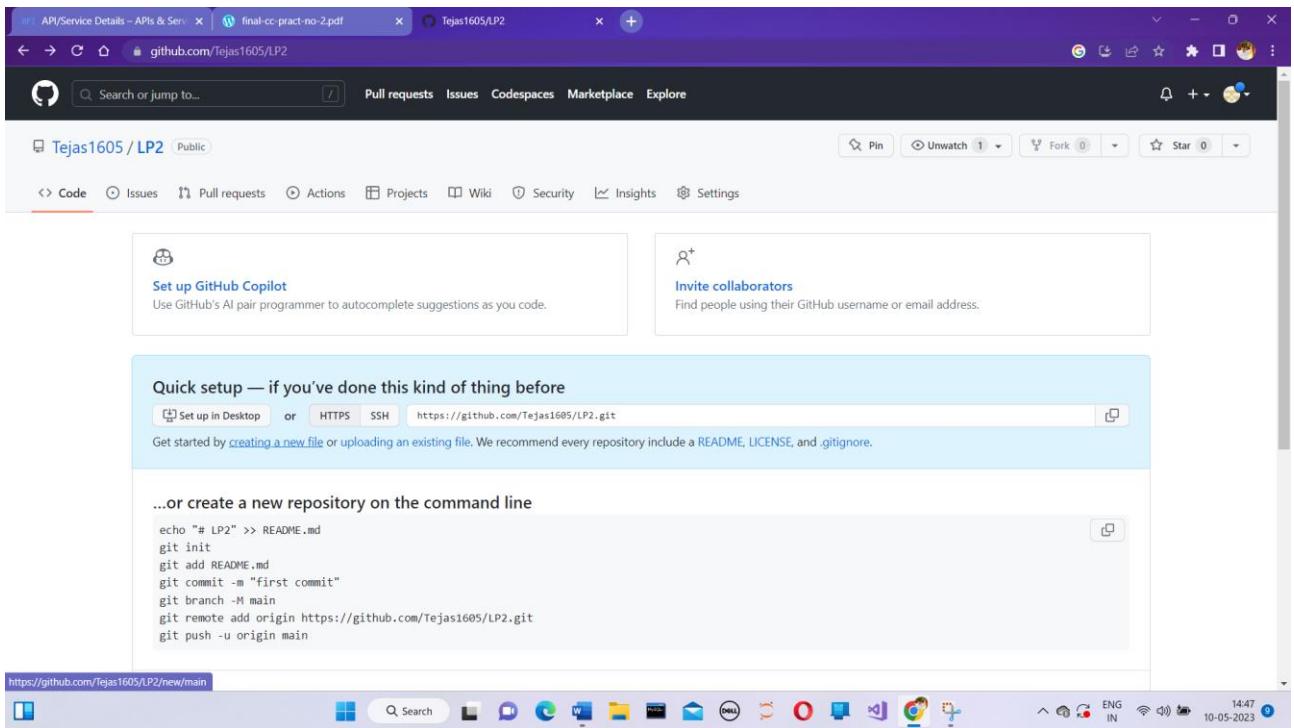
Step 13:- Login into your GitHub account and click on new repository.



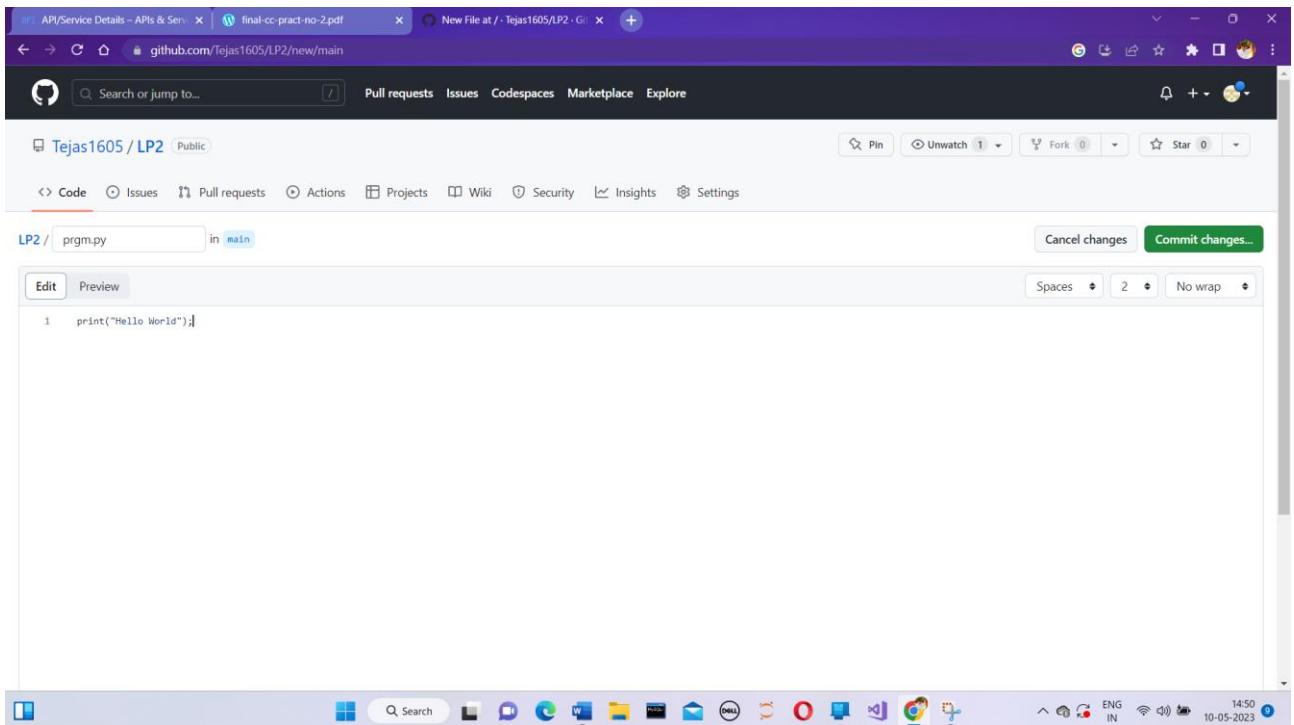
Step 14 :- Give name to your repository and click create.



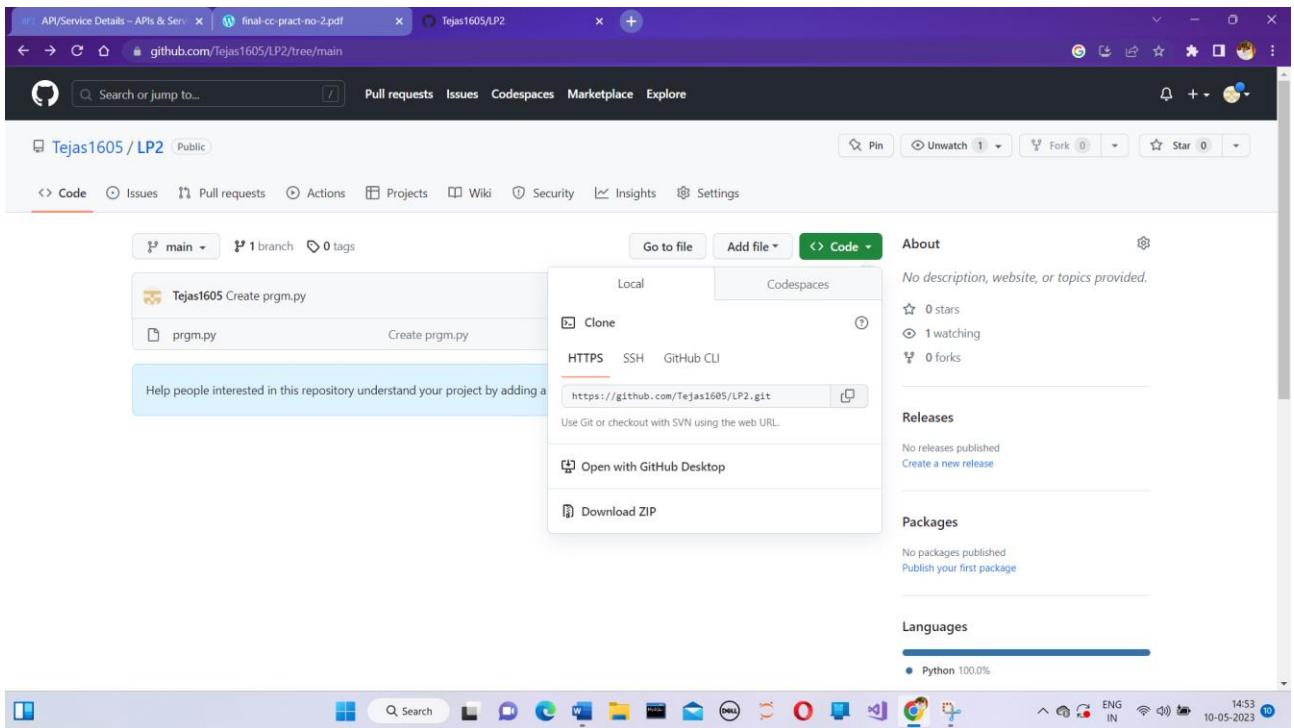
Step 15:- Click on creating new file



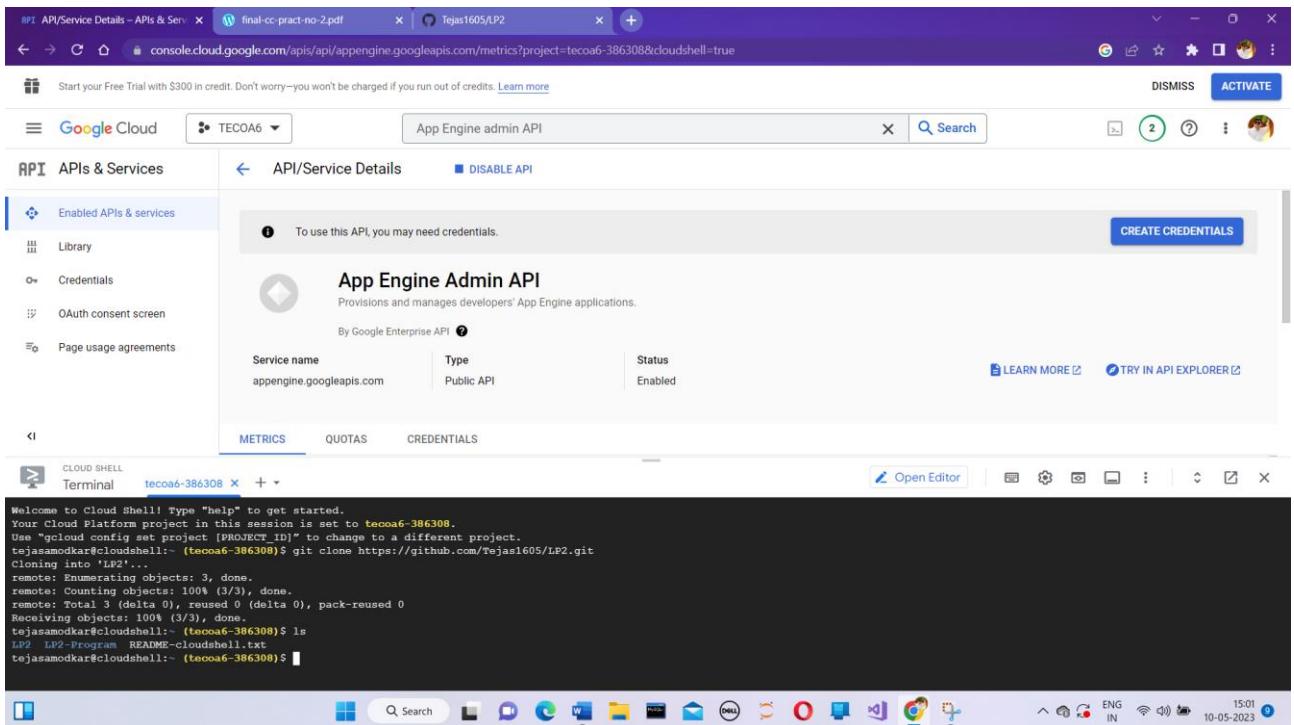
Step 16 :- Give name to the python file & type your code.



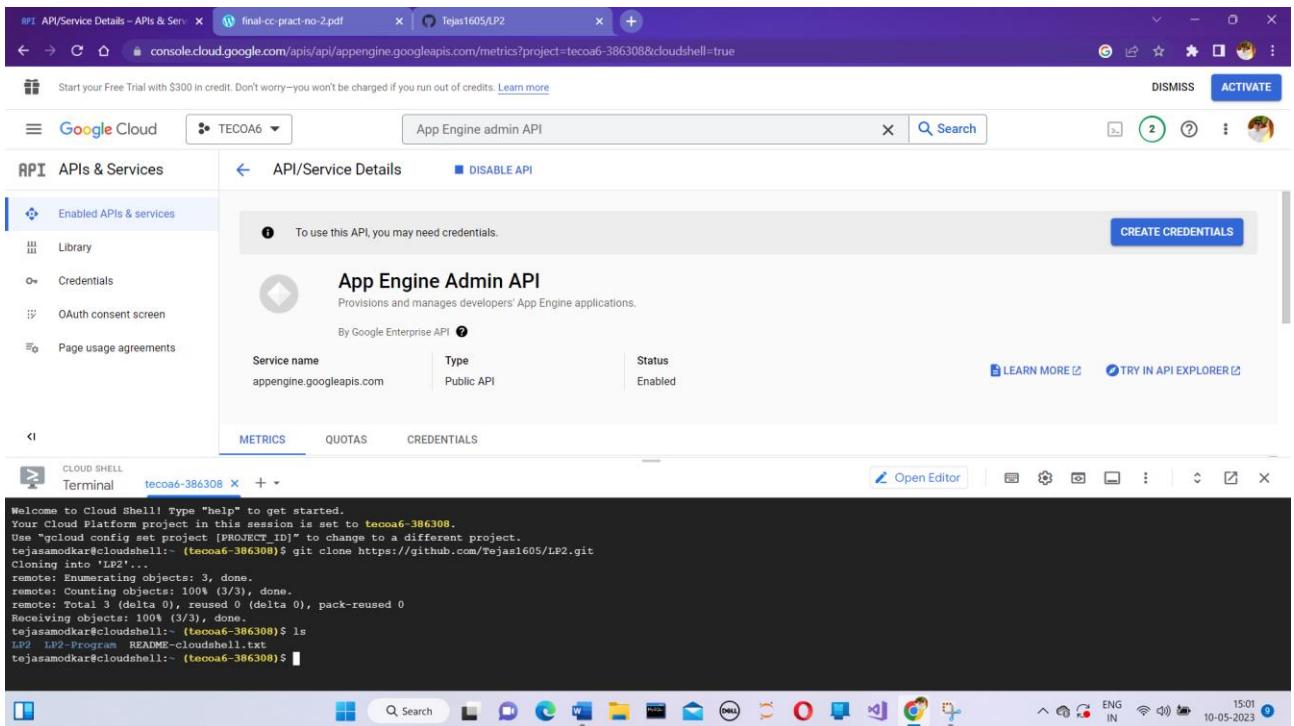
Step 17:- Click on code and copy URL.



Step 18:- Go to cloud and type – git clone and paste url.

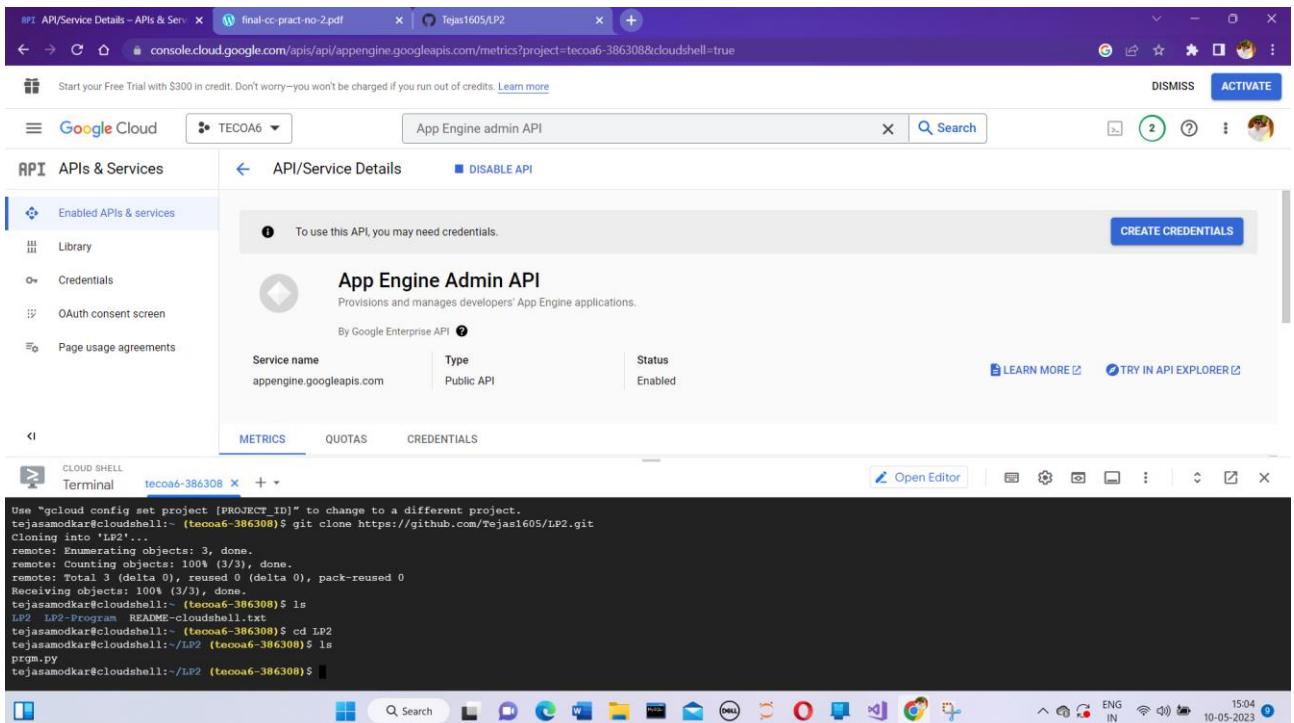


Step 19 :- Type ls



Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to **tecoa6-386308**.
Use "gcloud config set project [PROJECT ID]" to change to a different project.
tejasamodkar@cloudshell:~ (tecoa6-386308)\$ git clone https://github.com/Tejas1605/LP2.git
Cloning into 'LP2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
tejasamodkar@cloudshell:~ (tecoa6-386308)\$ ls
LP2 LP2-program README-cloudshell.txt
tejasamodkar@cloudshell:~ (tecoa6-386308)\$

Step 20 :- Enter cd-repository name.



Use "gcloud config set project [PROJECT ID]" to change to a different project.
tejasamodkar@cloudshell:~ (tecoa6-386308)\$ git clone https://github.com/Tejas1605/LP2.git
Cloning into 'LP2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
tejasamodkar@cloudshell:~ (tecoa6-386308)\$ ls
LP2 LP2-program README-cloudshell.txt
tejasamodkar@cloudshell:~ (tecoa6-386308)\$ cd LP2
tejasamodkar@cloudshell:~/LP2 (tecoa6-386308)\$ ls
prgm.py
tejasamodkar@cloudshell:~/LP2 (tecoa6-386308)\$

Step 21:- Type ls and to run python code type python-program name.

The screenshot shows the Google Cloud API Service Details page for the App Engine Admin API. The page includes a sidebar with 'Enabled APIs & services' (Library, Credentials, OAuth consent screen, Page usage agreements), a main content area with 'App Engine Admin API' details (Service name: appengine.googleapis.com, Type: Public API, Status: Enabled), and tabs for METRICS, QUOTAS, and CREDENTIALS. Below the page is a terminal window showing the output of 'ls' and the execution of 'python prgm.py' which prints 'Hello World'.

To use this API, you may need credentials. [CREATE CREDENTIALS](#)

App Engine Admin API
Provisions and manages developers' App Engine applications.
By Google Enterprise API [?](#)

Service name	Type	Status
appengine.googleapis.com	Public API	Enabled

[LEARN MORE](#) [TRY IN API EXPLORER](#)

CLOUD SHELL Terminal teco06-386308 +

```
Cloning into 'LP2'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
tejasamodkar@cloudshell:~/teco06-386308$ ls
LP2 LP2-Program README-cloudshell.txt
tejasamodkar@cloudshell:~/teco06-386308$ cd LP2
tejasamodkar@cloudshell:~/LP2 (teco06-386308)$ ls
prgm.py
tejasamodkar@cloudshell:~/LP2 (teco06-386308)$ python prgm.py
Hello World
tejasamodkar@cloudshell:~/LP2 (teco06-386308)$
```

PRACTICAL NO : 03

Name :

Div

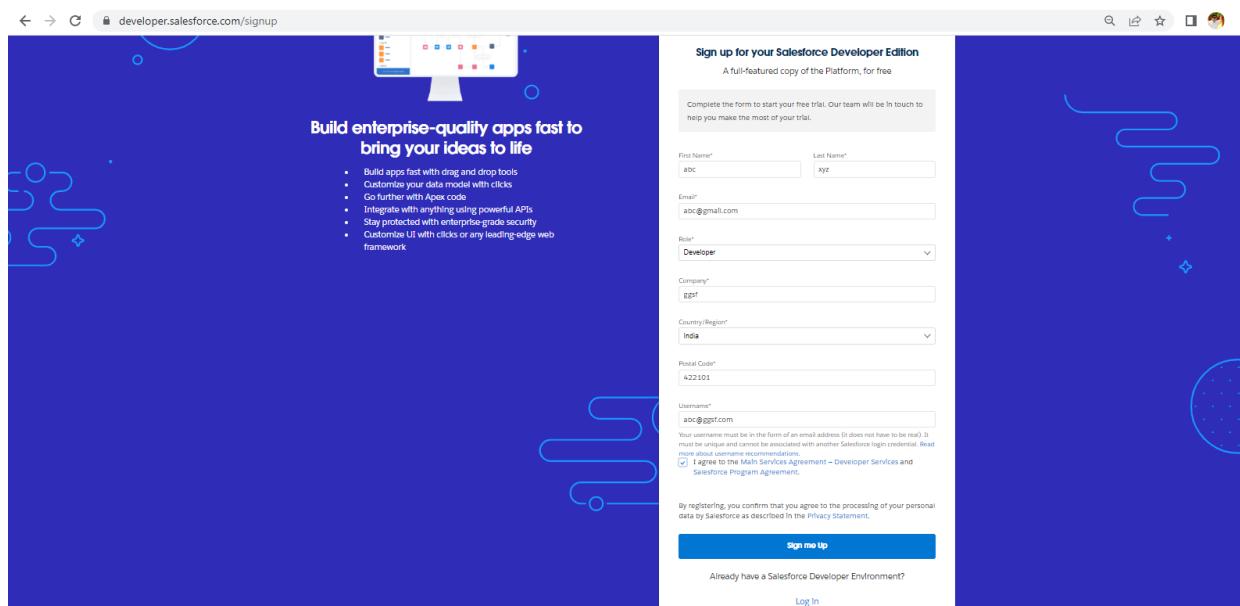
Roll No.:

Title : Creating an Application in SalesForce.com using Apex programming Language

STEPS TO CREATE AN APPLICATION :

Step No 1: Create new org:

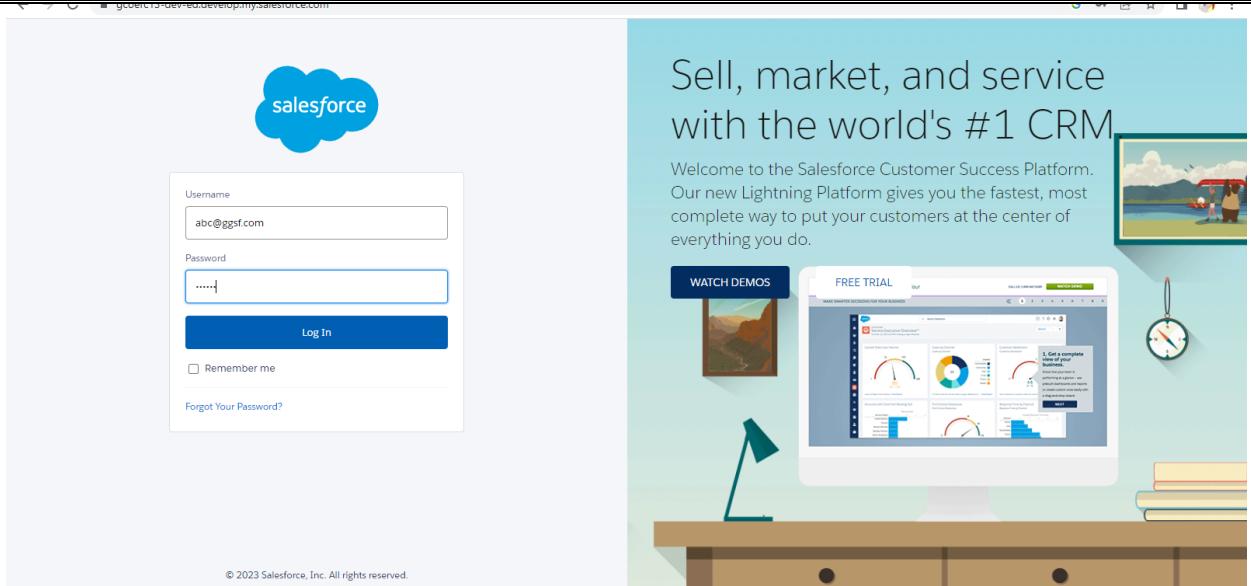
<https://developer.salesforce.com/signup>



Step No 2: After signup, loging using following URL

<https://login.salesforce.com/>

Step No 3: Login Page (Enter your credential to login)



1. Open Developer Console

2. File ---> New ---> Select Apex Class

Type below mentioned code

```
public class firstClass1 {
    public static void Addition()
    {
        Integer a = 4;
        Integer b = 5;
        Integer c = a + b;
        Integer d = 4 + 5;
        Integer e = a + 5;
        System.debug('Add =' + c);
        System.debug('Add =' + d);
        System.debug('Add =' + e);
    }
    public static void Subtraction()
    {
        Integer a = 4;
        Integer b = 5;
        Integer c1 = a - b;
        Integer d1 = b - a;
        Integer e1 = 4 - 5;
        Integer f1 = a - 5;

        System.debug('Sub =' + c1);
        System.debug('Sub =' + d1);
        System.debug('Sub =' + e1);
        System.debug('Sub =' + f1);
    }
    public static void Multi()
    {
        Integer a = 4;
        Integer b = 5;
```

```

        Integer c = a + b;
        Integer d = 4 * 5;
        Integer e = a * 5;

        System.debug(c);
        System.debug(d);
        System.debug(e);

        Integer f = -4;
        Integer g = a * f;
        System.debug(g);
    }

    public static void Div()
    {
        Integer a = 4;
        Integer b = 5;
        Integer c = a / b;
        Integer d = 4 / 5;
        Integer e = a / 5;

        System.debug(c);
        System.debug(d);
        System.debug(e);
    }
}

```

```

Developer Console - Google Chrome
gcoerc13-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage
File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >
firstClass1.apxc Log executeAnonymous @3/9/2023, 11:35:51 AM Log executeAnonymous @3/9/2023, 11:37:23 AM
Code Coverage: None API Version: 57 Go To
1  public class firstClass1 {
2      public static void Addition()
3      {
4          Integer a = 4;
5          Integer b = 5;
6          Integer c = a + b;
7          Integer d = 4 + 5;
8          Integer e = a + 5;
9          System.debug('Add = ' + c);
10         System.debug('Add =' + d);
11         System.debug('Add =' + e);
12     }
13     public static void Subtraction()
14     {
15
16         Integer a = 4;
17         Integer b = 5;
18         Integer c1 = a - b;
19         Integer d1 = b - a;
20         Integer e1 = 4 - 5;
21         Integer f1 = a - 5;
22
23         System.debug('Sub =' + c1);
24         System.debug('Sub =' + d1);
25         System.debug('Sub =' + e1);
26         System.debug('Sub =' + f1);
27     }
28 }

```

Logs, Tests, and Problems

The screenshot shows the Salesforce Developer Console interface. The title bar says "Developer Console - Google Chrome" and the address bar shows the URL "gcoerc13-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The menu bar includes "File", "Edit", "Debug", "Test", "Workspace", "Help", and "Go To". A tab bar at the top has "firstClass1.apxc" selected, along with two log tabs: "Log executeAnonymous @3/9/2023, 11:35:51 AM" and "Log executeAnonymous @3/9/2023, 11:37:23 AM". The main area displays the Apex code for the class "firstClass1". The code contains four methods: Addition(), Subtraction(), Multi(), and Div(). Each method performs arithmetic operations on integers a and b, and uses System.debug() statements to log the values of c, d, and e.

```
28     }
29     public static void Multi()
30     {
31         Integer a = 4;
32         Integer b = 5;
33         Integer c = a * b;
34         Integer d = 4 * 5;
35         Integer e = a * 5;
36
37         System.debug(c);
38         System.debug(d);
39         System.debug(e);
40
41         Integer f = -4;
42         Integer g = a * f;
43         System.debug(g);
44     }
45     public static void Div()
46     {
47         Integer a = 4;
48         Integer b = 5;
49         Integer c = a / b;
50         Integer d = 4 / 5;
51         Integer e = a / 5;
52
53         System.debug(c);
54         System.debug(d);
55         System.debug(e);
56     }
```

3. Click on Debug ---> Open Execute Acronymous Window

4. Type below code(Apex Code)

```
firstClass1.Addition();
firstClass1.Subtraction();
firstClass1.Multi();
firstClass1.Div();
```

5. Click on Open log then Execute code

Enter Apex Code

```

1 firstClass1.Addition();
2 firstClass1.Subtraction();
3 firstClass1.Multi();
4 FirstClass1.Div();|
```

Open Log

6. Click on Debug only (You will get output)

Developer Console - Google Chrome
 gcoerc13-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

Execution Log		
Timestamp	Event	Details
11:50:57:002	USER_INFO	[EXTERNAL] 0052w00000F1bbu tejas@gcoerc.com (GMT+05:30) India Standard Time (Asia/Kolkata) GMT+05:30
11:50:57:002	EXECUTION_ST...	
11:50:57:002	CODE_UNIT_ST...	[EXTERNAL] execute_anonymous_apex
11:50:57:002	HEAP_ALLOCATE	[79] Bytes:3
11:50:57:002	HEAP_ALLOCATE	[84] Bytes:152
11:50:57:002	HEAP_ALLOCATE	[399] Bytes:408
11:50:57:002	HEAP_ALLOCATE	[412] Bytes:408
11:50:57:002	HEAP_ALLOCATE	[520] Bytes:48
11:50:57:002	HEAP_ALLOCATE	[139] Bytes:6
11:50:57:002	HEAP_ALLOCATE	[EXTERNAL] Bytes:7
11:50:57:003	STATEMENT_EX...	[1]
11:50:57:003	STATEMENT_EX...	[1]
11:50:57:003	HEAP_ALLOCATE	[52] Bytes:5
11:50:57:003	HEAP_ALLOCATE	[58] Bytes:5
11:50:57:003	HEAP_ALLOCATE	[66] Bytes:7
11:50:57:003	SYSTEM_MODE...	false
11:50:57:003	HEAP_ALLOCATE	[1] Bytes:5
11:50:57:004	HEAP_ALLOCATE	[1] Bytes:10
11:50:57:004	HEAP_ALLOCATE	[1] Bytes:40
11:50:57:004	METHOD_ENTRY	[1] 01p2w00000dJUSg firstClass1.firstClass1()
11:50:57:004	STATEMENT_EX...	[1]
11:50:57:004	STATEMENT_EX...	[1]
11:50:57:004	METHOD_EXIT	[1] firstClass1
11:50:57:004	METHOD_ENTRY	[1] 01p2w00000dJUSg firstClass1.Addition()
11:50:57:004	STATEMENT_EX...	[3]
11:50:57:004	STATEMENT_EX...	[4]
11:50:57:004	VARIABLE_SCO...	[4] a Integer false false
11:50:57:004	HEAP_ALLOCATE	[4] Bytes:4
11:50:57:004	VARIABLE_ASSI...	[4] a 4

This Frame Executable Debug Only Filter Click here to filter the log

Logs, Tests, and Problems

Output :

The screenshot shows the Salesforce Developer Console in Google Chrome. The title bar reads "Developer Console - Google Chrome". The address bar shows the URL "gcoerc13-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". The main content area displays an "Execution Log" table with three columns: "Timestamp", "Event", and "Details". The log entries show a sequence of USER_DEBUG logs from 11:49:29:008 to 11:49:29:013, detailing variable assignments and calculations. At the bottom of the log table, there are checkboxes for "This Frame", "Executable", and "Debug Only", with "Debug Only" checked. A "Filter" input field and a "Click here to filter the log" link are also present. The status bar at the bottom of the browser window shows "Logs, Tests, and Problems".

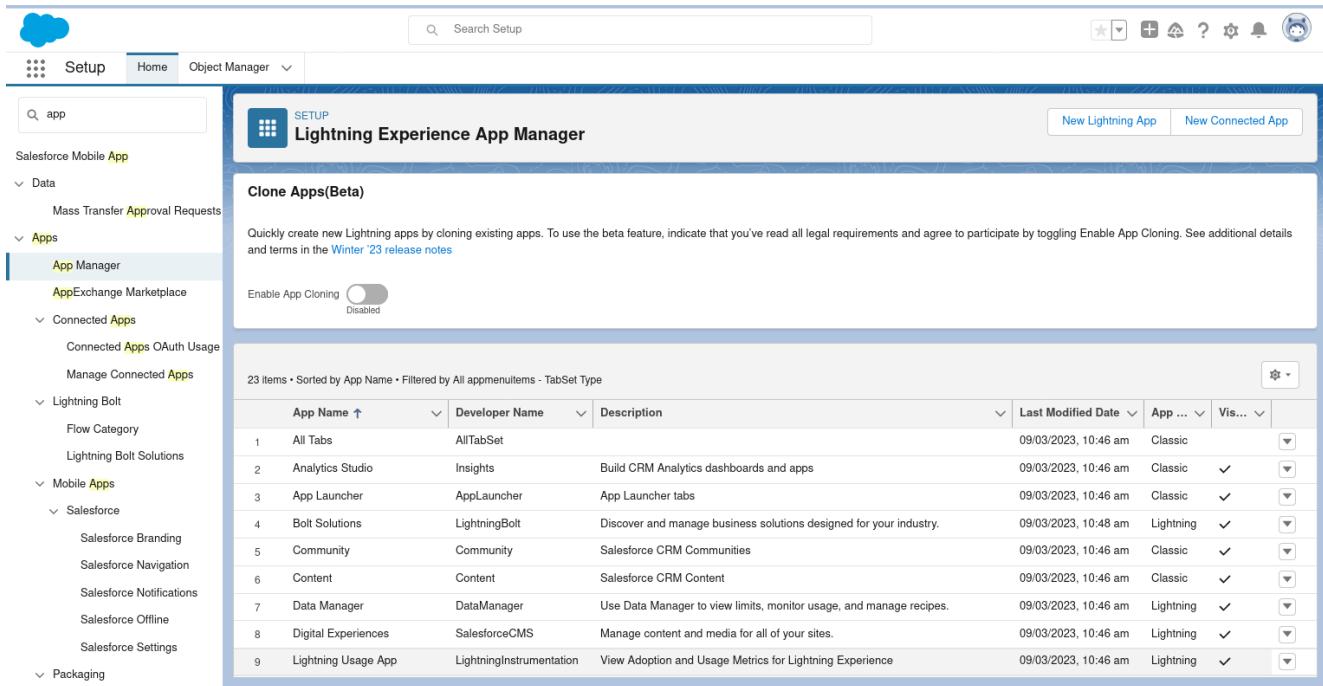
Timestamp	Event	Details
11:49:29:008	USER_DEBUG	[9]DEBUG Add = 9
11:49:29:010	USER_DEBUG	[10]DEBUG Add =9
11:49:29:010	USER_DEBUG	[11]DEBUG Add =9
11:49:29:011	USER_DEBUG	[24]DEBUG Sub =-1
11:49:29:011	USER_DEBUG	[25]DEBUG Sub =1
11:49:29:011	USER_DEBUG	[26]DEBUG Sub =-1
11:49:29:011	USER_DEBUG	[27]DEBUG Sub =-1
11:49:29:012	USER_DEBUG	[37]DEBUG 20
11:49:29:012	USER_DEBUG	[38]DEBUG 20
11:49:29:012	USER_DEBUG	[39]DEBUG 20
11:49:29:013	USER_DEBUG	[43]DEBUG -16
11:49:29:013	USER_DEBUG	[53]DEBUG 0
11:49:29:013	USER_DEBUG	[54]DEBUG 0
11:49:29:013	USER_DEBUG	[55]DEBUG 0

PRACTICAL NO : 04

Title : Design and develop custom Application (Mini Project) using Salesforce Cloud.

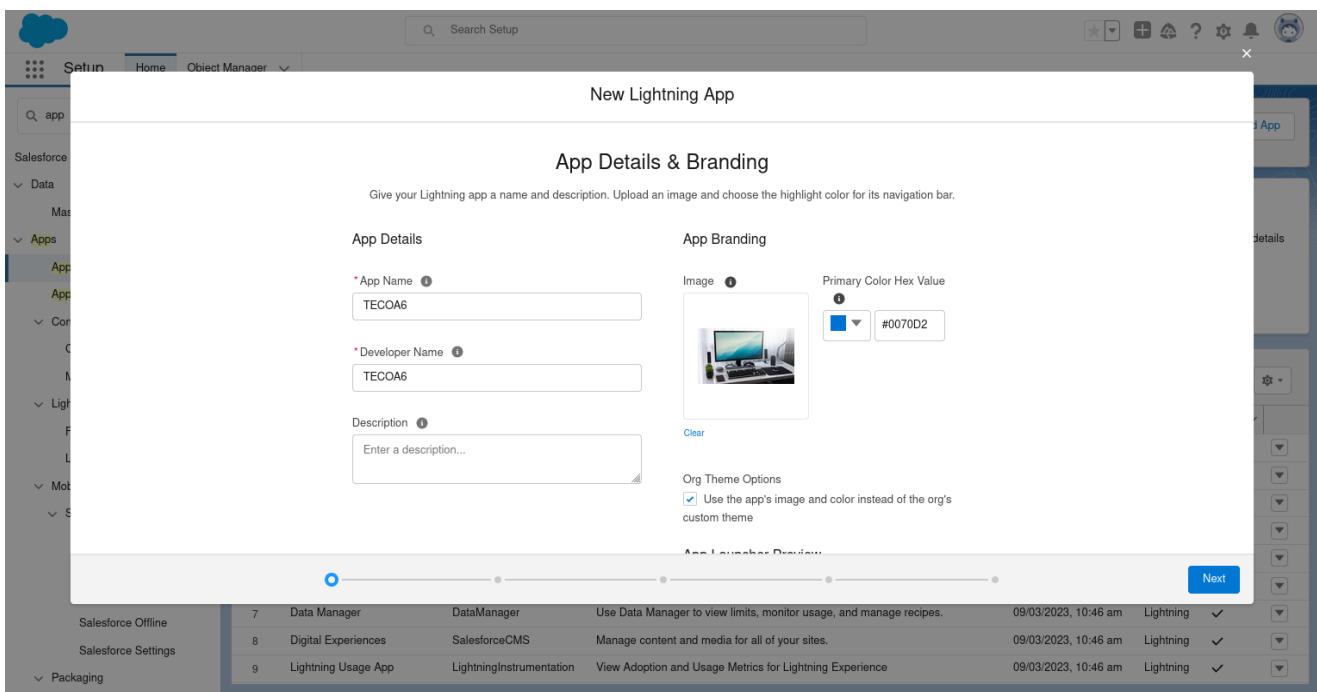
STEPS TO CREATE AN APPLICATION(mini project) :

1. Open salesforce in Lightning Experience.
2. Open App Launcher □ View all □ Quick Search □ App Manager □ Click on New Lightning App.

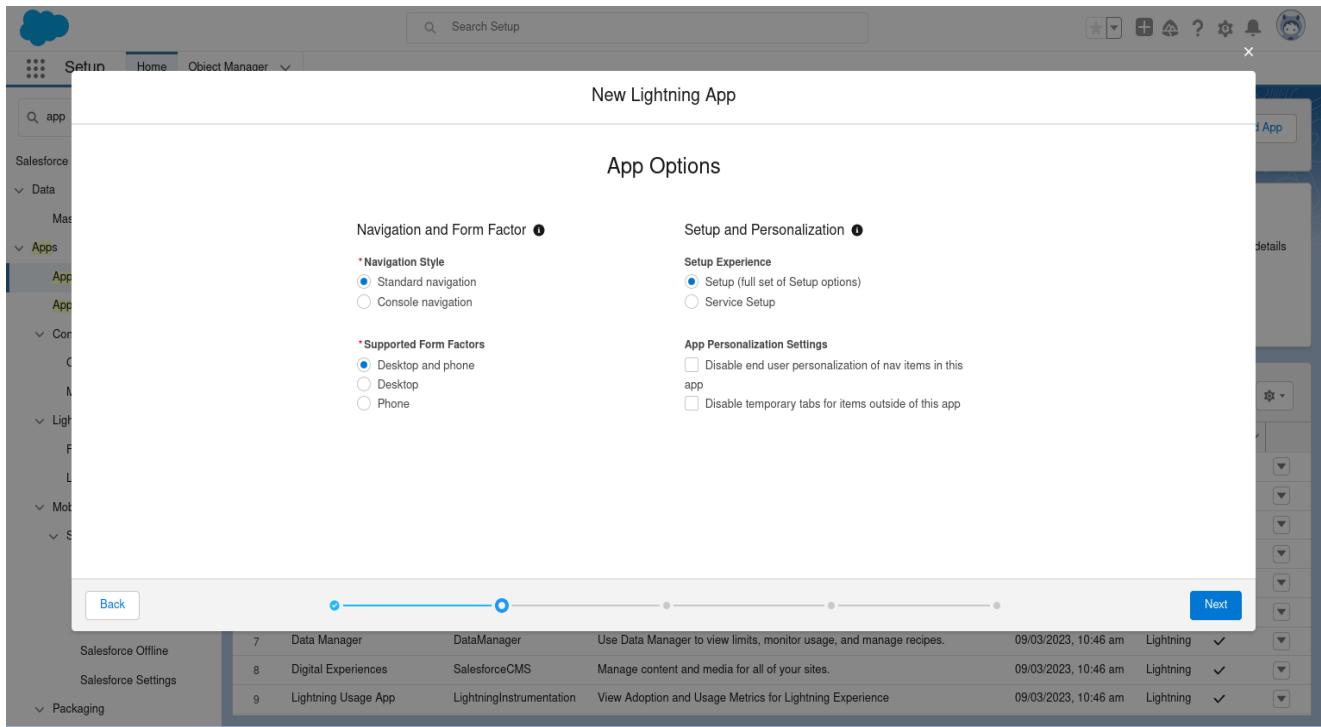
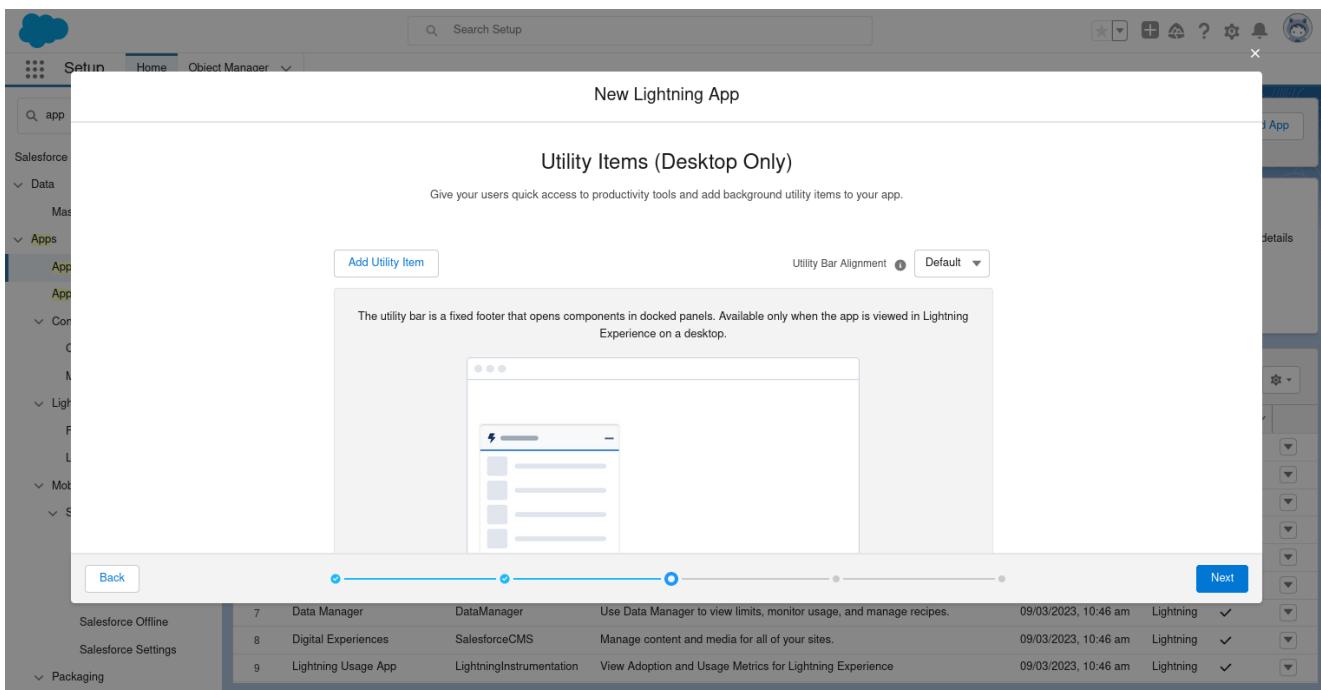


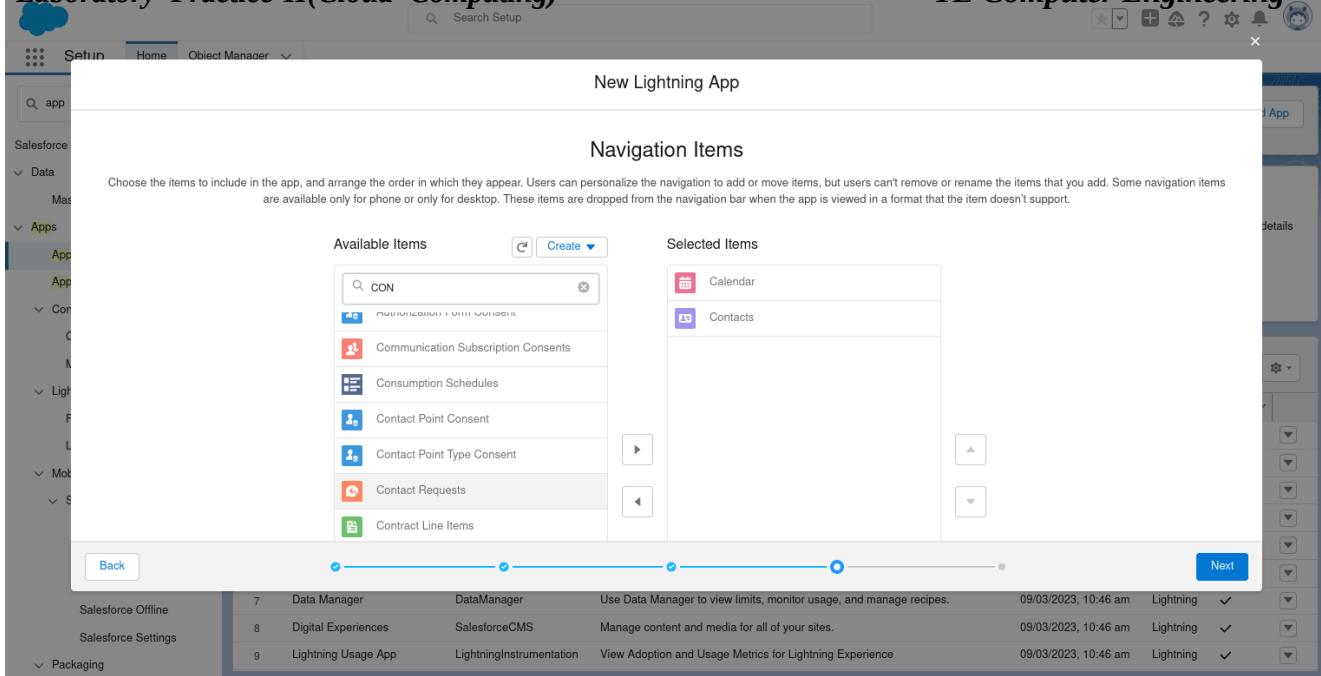
The screenshot shows the Salesforce App Manager interface. On the left, there's a sidebar with various categories like Data, Apps, and Connected Apps. Under Apps, 'App Manager' is selected. The main content area is titled 'Lightning Experience App Manager' and shows the 'Clone Apps(Beta)' section. It includes a note about enabling app cloning and a table listing 23 existing apps, such as All Tabs, Analytics Studio, App Launcher, Bolt Solutions, Community, Content, Data Manager, Digital Experiences, and Lightning Usage App, along with their developer names and descriptions.

- 3.fill the mention information.

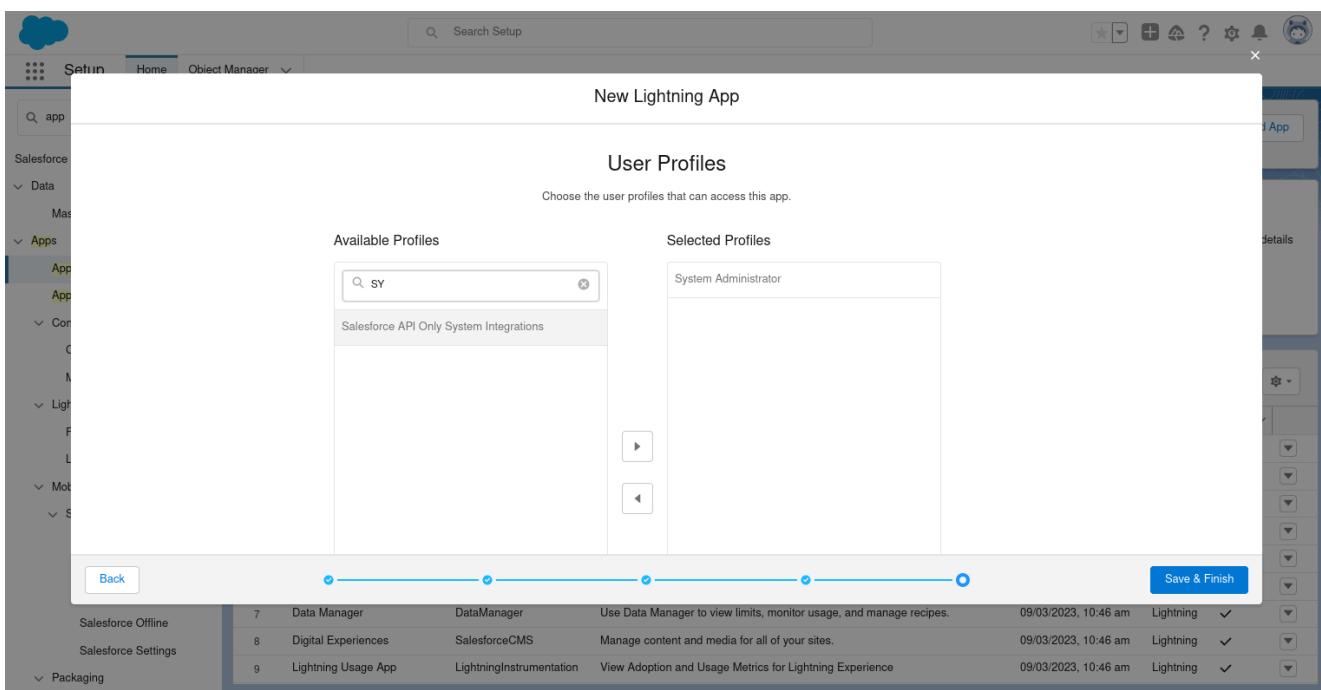


The screenshot shows the 'New Lightning App' configuration page. It has two main sections: 'App Details' and 'App Branding'. In 'App Details', fields include 'App Name' (TECOA6), 'Developer Name' (TECOA6), and 'Description' (Enter a description...). In 'App Branding', there's an 'Image' (a small thumbnail of a computer setup), a 'Primary Color Hex Value' (#0070D2), and a checkbox for 'Use the app's image and color instead of the org's custom theme'. At the bottom, there's an 'App Launcher Preview' section showing a preview of the app and a 'Next' button.

4.Next □ App option(optional).**5.Next □ Add Utility (optional).****6.Next □ Navigation Item(you can add item).**



7. Next □ User Profile(use the user profilethat can access this app) □ Save and Finish.



8.You will get Lightning Experience App Manager Window.

The screenshot shows the Salesforce App Manager window. On the left, there's a sidebar with navigation links like Setup, Home, Object Manager, and a search bar for 'app'. Under 'Salesforce Mobile App', there are sections for Data, Apps (with 'App Manager' selected), Connected Apps, Lightning Bolt, Mobile Apps (including Salesforce), and Packaging. A toggle switch for 'Enable App Cloning' is set to 'Disabled'. The main area displays a table titled '24 items • Sorted by App Name • Filtered by All appmenuitems - TabSet Type'. The columns are App Name, Developer Name, Description, Last Modified Date, App Type, and Visibility. The table lists various Salesforce built-in and custom apps.

App Name	Developer Name	Description	Last Modified Date	App ...	Vis...
10 Marketing	Marketing	Best-in-class on-demand marketing automation	09/03/2023, 10:46 am	Classic	✓
11 Platform	Platform	The fundamental Lightning Platform	09/03/2023, 10:46 am	Classic	✓
12 Queue Management	QueueManagement	Create and manage queues for your business.	09/03/2023, 10:46 am	Lightning	✓
13 Sales	Sales	The world's most popular sales force automation (SFA) solution	09/03/2023, 10:46 am	Classic	✓
14 Sales	LightningSales	Manage your sales process with accounts, leads, opportunities, and more	09/03/2023, 10:49 am	Lightning	✓
15 Sales Console	LightningSalesConsole	(Lightning Experience) Lets sales reps work with multiple records on one screen	09/03/2023, 10:46 am	Lightning	✓
16 Salesforce Chatter	Chatter	The Salesforce Chatter social network, including profiles and feeds	09/03/2023, 10:46 am	Classic	✓
17 Salesforce Scheduler Setup	LightningScheduler	Set up personalized appointment scheduling.	09/03/2023, 10:48 am	Lightning	✓
18 Service	Service	Manage customer service with accounts, contacts, cases, and more	09/03/2023, 10:46 am	Classic	✓
19 Service Console	LightningService	(Lightning Experience) Lets support agents work with multiple records across c...	09/03/2023, 10:46 am	Lightning	✓
20 Site.com	Sites	Build pixel-perfect, data-rich websites using the drag-and-drop Site.com applica...	09/03/2023, 10:46 am	Classic	✓
21 Subscription Management	RevenueCloudConsole	Get started automating your revenue processes	09/03/2023, 10:46 am	Lightning	✓
22 TECOA6	TECOA6		13/04/2023, 11:43 am	Lightning	✓
23 TECOA60	TECOA60		13/04/2023, 11:50 am	Lightning	✓
24 TECOA61	TECOA61		13/04/2023, 12:22 pm	Lightning	✓

9.Search Your App by its name in App Launcher. Just by entering some character, you can see app name with its logo.

The screenshot shows the Salesforce App Launcher window. It features a search bar at the top right and a sidebar with links for Setup, Home, Object Manager, and a search bar for 'app'. The main area is titled 'App Launcher' and contains a grid of app cards. Each card includes an icon, the app name, a brief description, and a three-dot menu button. Below the grid, there's a section for 'All Items' listing the same apps as the App Manager table. The sidebar also includes links for Data, Apps, Connected Apps, Lightning Bolt, Mobile Apps, and Packaging.

App Name	Developer Name	Description	Last Modified Date	App Type	Visibility
10 Marketing	Marketing	Best-in-class on-demand marketing automation	09/03/2023, 10:46 am	Classic	✓
11 Platform	Platform	The fundamental Lightning Platform	09/03/2023, 10:46 am	Classic	✓
12 Queue Management	QueueManagement	Create and manage queues for your business.	09/03/2023, 10:46 am	Lightning	✓
13 Sales	Sales	The world's most popular sales force automation (SFA) solution	09/03/2023, 10:46 am	Classic	✓
14 Sales	LightningSales	Manage your sales process with accounts, leads, opportunities, and more	09/03/2023, 10:49 am	Lightning	✓
15 Sales Console	LightningSalesConsole	(Lightning Experience) Lets sales reps work with multiple records on one screen	09/03/2023, 10:46 am	Lightning	✓
16 Salesforce Chatter	Chatter	The Salesforce Chatter social network, including profiles and feeds	09/03/2023, 10:46 am	Classic	✓
17 Salesforce Scheduler Setup	LightningScheduler	Set up personalized appointment scheduling.	09/03/2023, 10:48 am	Lightning	✓
18 Service	Service	Manage customer service with accounts, contacts, cases, and more	09/03/2023, 10:46 am	Classic	✓
19 Service Console	LightningService	(Lightning Experience) Lets support agents work with multiple records across c...	09/03/2023, 10:46 am	Lightning	✓
20 Site.com	Sites	Build pixel-perfect, data-rich websites using the drag-and-drop Site.com applica...	09/03/2023, 10:46 am	Classic	✓
21 Subscription Management	RevenueCloudConsole	Get started automating your revenue processes	09/03/2023, 10:46 am	Lightning	✓
22 TECOA6	TECOA6		13/04/2023, 11:43 am	Lightning	✓
23 TECOA60	TECOA60		13/04/2023, 11:50 am	Lightning	✓
24 TECOA61	TECOA61		13/04/2023, 12:22 pm	Lightning	✓

10.Click on App you can see your application appearance in window Output.

This screenshot shows a contacts management interface. At the top, there's a navigation bar with icons for a cloud, user profile, and various links like 'TECOA6', 'Contacts', and 'Calendar'. A search bar is also present. The main area is titled 'Recently Viewed' and shows a message: '0 items • Updated a few seconds ago'. Below this are filter options for 'Name', 'Account Name', 'Account Site', 'Phone', 'Email', and 'Contact Owner Alias'. A note at the bottom says, 'You haven't viewed any Contacts recently. Try switching list views.'

This screenshot shows a calendar interface. The top navigation bar includes a cloud icon, 'TECOA6', 'Contacts', and 'Calendar'. The main area displays a weekly calendar for the week of April 9, 2023, from Sunday to Saturday. The time axis on the left ranges from 7am to 2pm. A red horizontal bar is visible on Thursday, April 13, between approximately 11:30am and 1:30pm. On the right side, there are sections for 'My Calendars' (with a 'My Events' dropdown) and 'Other Calendars'.