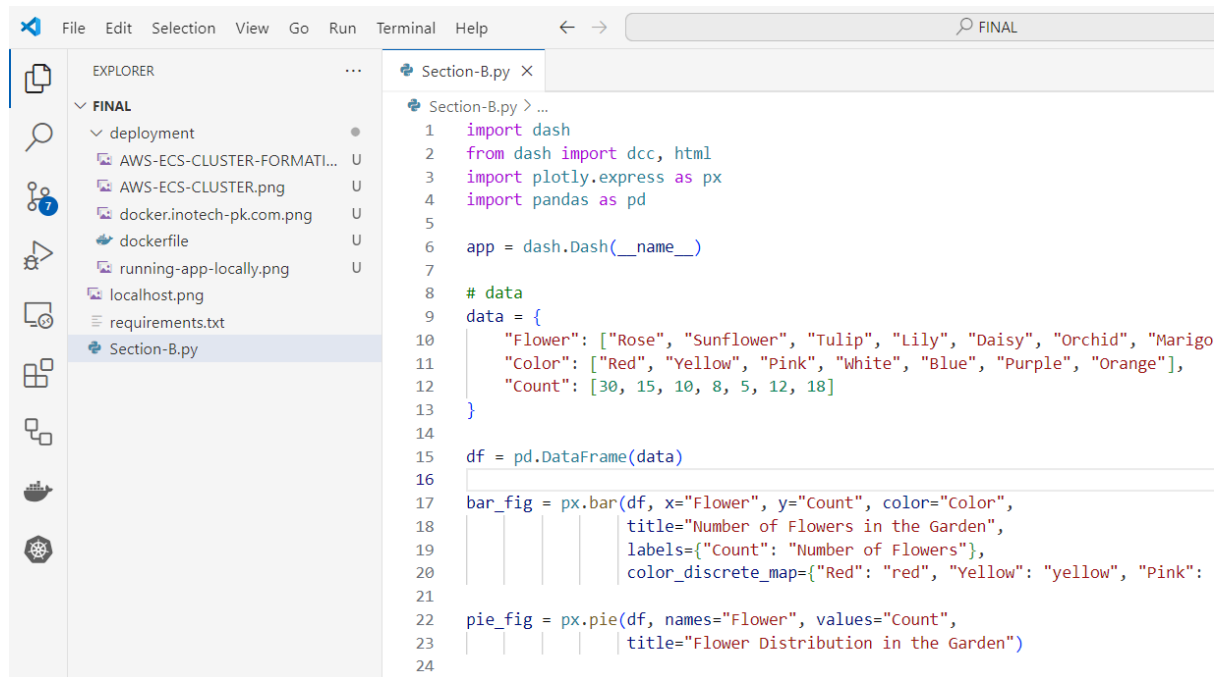


Amaan UI Haq Siddiqui - BDA-IBA NAVTTC

Section B - Practical : Deployment and sharing of Dashboards:
Develop a Dash application and deploy for online sharing.

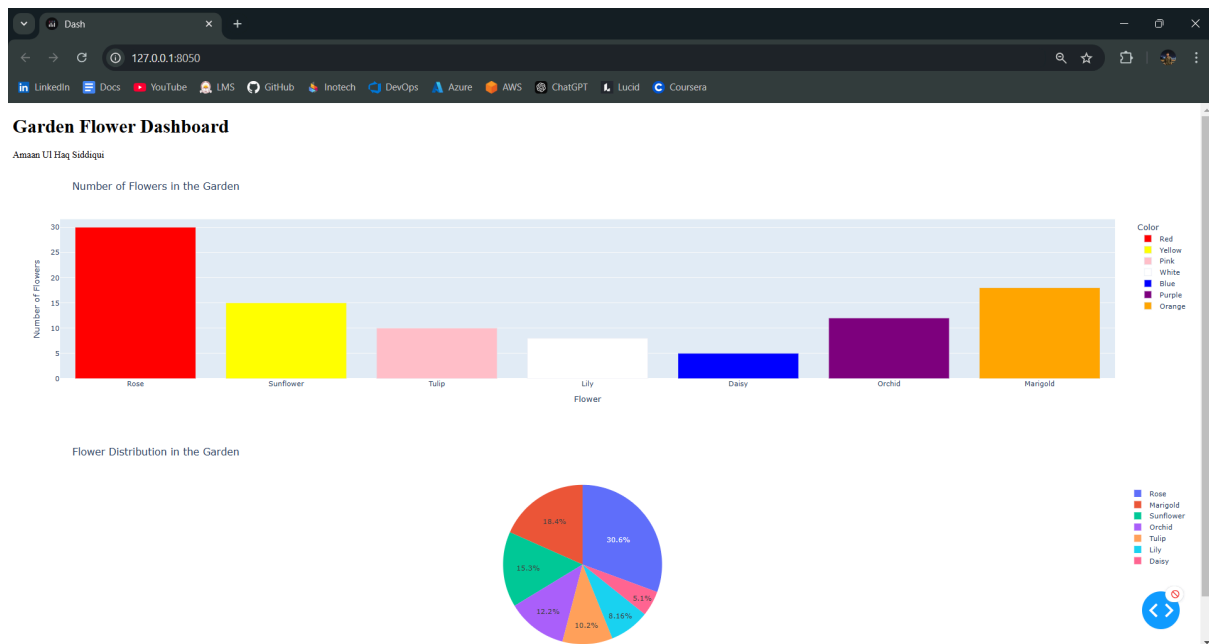
<https://github.com/amaan-igs/dash>



The screenshot shows a Visual Studio Code editor window with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with a folder named 'FINAL' containing several files and subfolders. The code editor displays a Python script named 'Section-B.py' which imports 'dash', 'plotly.express', and 'pandas'. It defines a Dash app and creates two figures: a bar chart and a pie chart, both titled 'Number of Flowers in the Garden'.

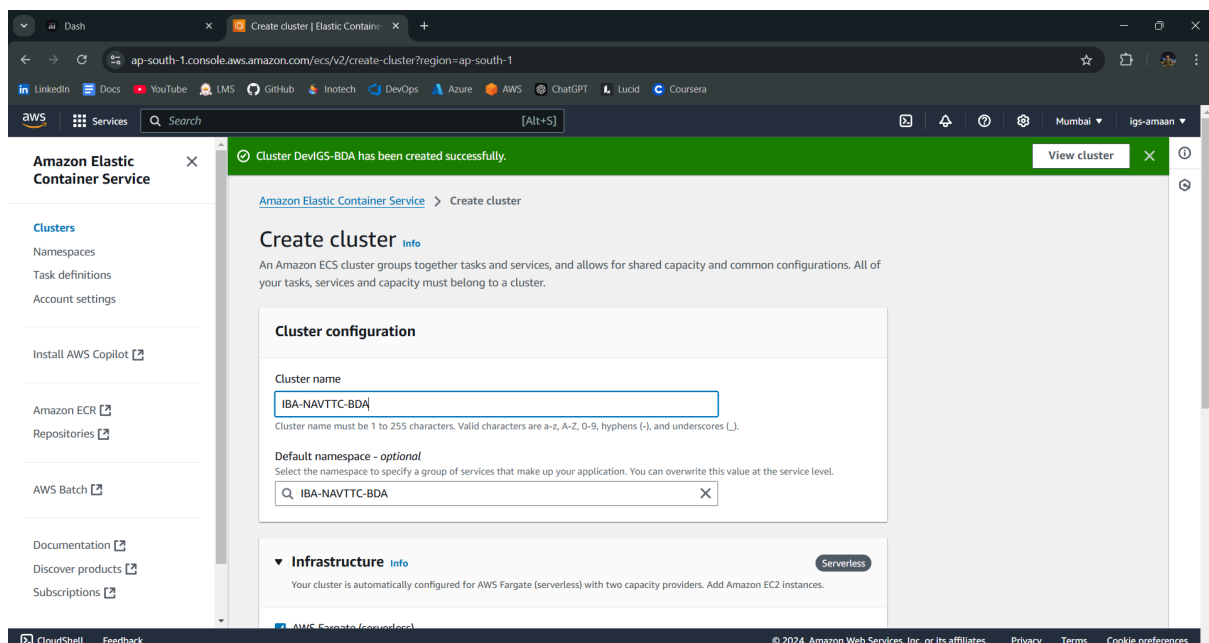
```
1 import dash
2 from dash import dcc, html
3 import plotly.express as px
4 import pandas as pd
5
6 app = dash.Dash(__name__)
7
8 # data
9 data = {
10     "Flower": ["Rose", "Sunflower", "Tulip", "Lily", "Daisy", "Orchid", "Marigo",
11     "Color": ["Red", "Yellow", "Pink", "White", "Blue", "Purple", "Orange"],
12     "Count": [30, 15, 10, 8, 5, 12, 18]
13 }
14
15 df = pd.DataFrame(data)
16
17 bar_fig = px.bar(df, x="Flower", y="Count", color="Color",
18                 title="Number of Flowers in the Garden",
19                 labels={"Count": "Number of Flowers"},
20                 color_discrete_map={"Red": "red", "Yellow": "yellow", "Pink":
21
22 pie_fig = px.pie(df, names="Flower", values="Count",
23                 title="Flower Distribution in the Garden")
24
```

App is running on localhost

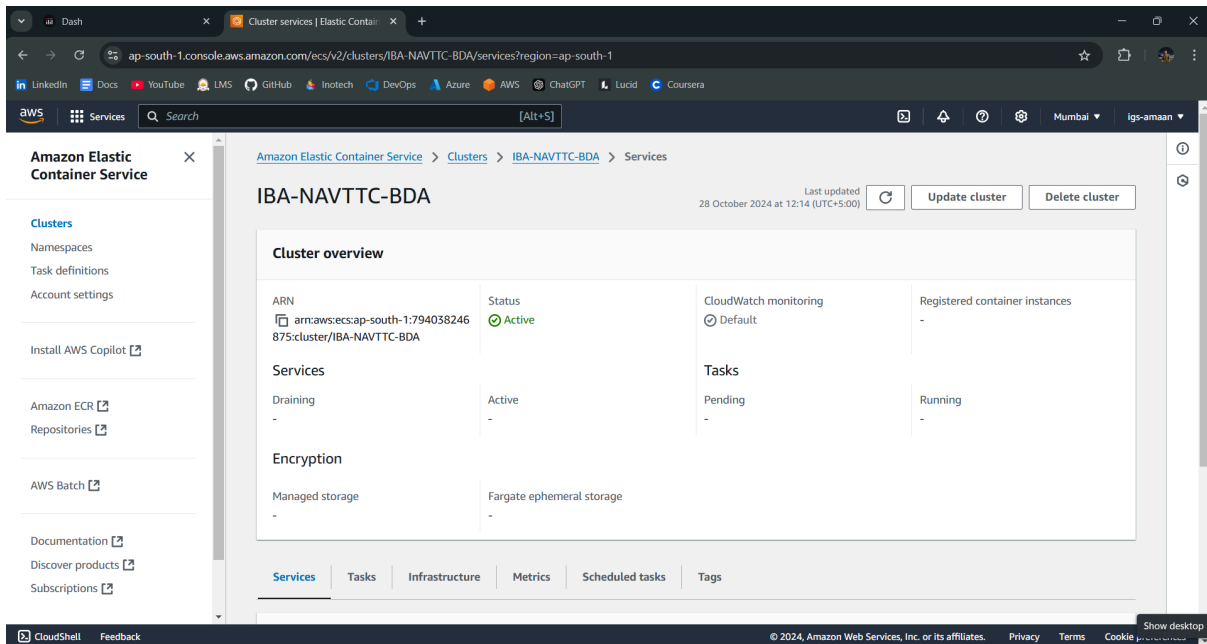


Deploying the application on AWS ECS Cluster

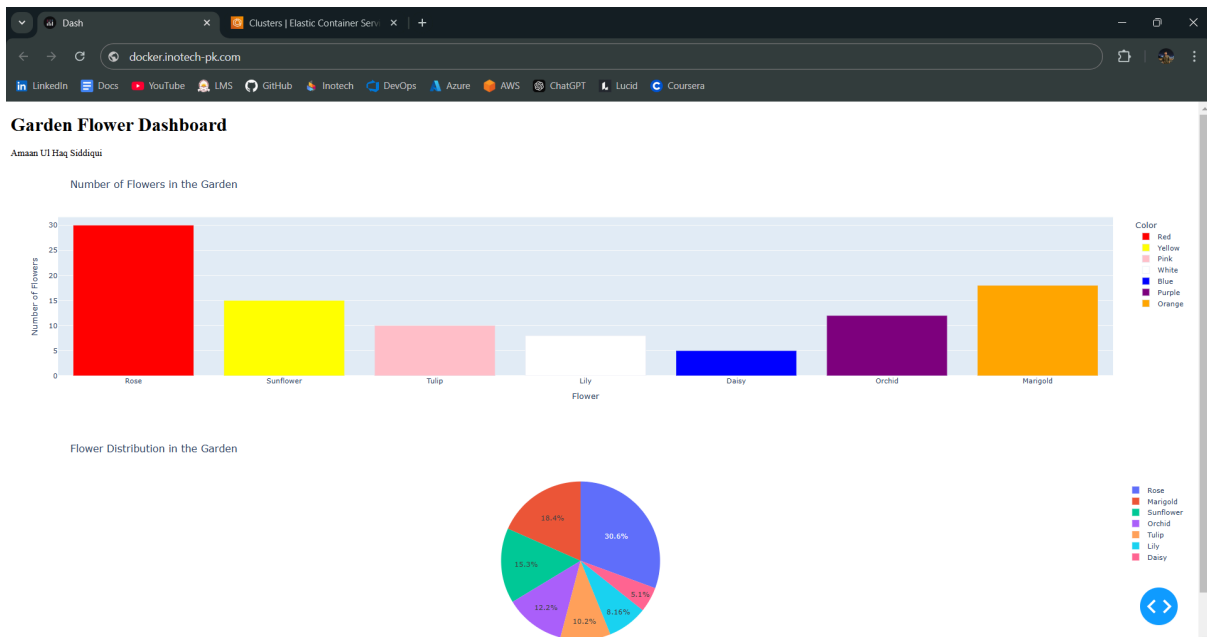
Naming cluster



Forming Cluster



Dockerfile used to deploy on my on domain (inotech-pk.com)'s subdomain (docker.inotech-pk.com) which can be seen below;\



I have deactivated the cluster and deleted the subdomain CNAME record due to obvious reasons of cost and security.