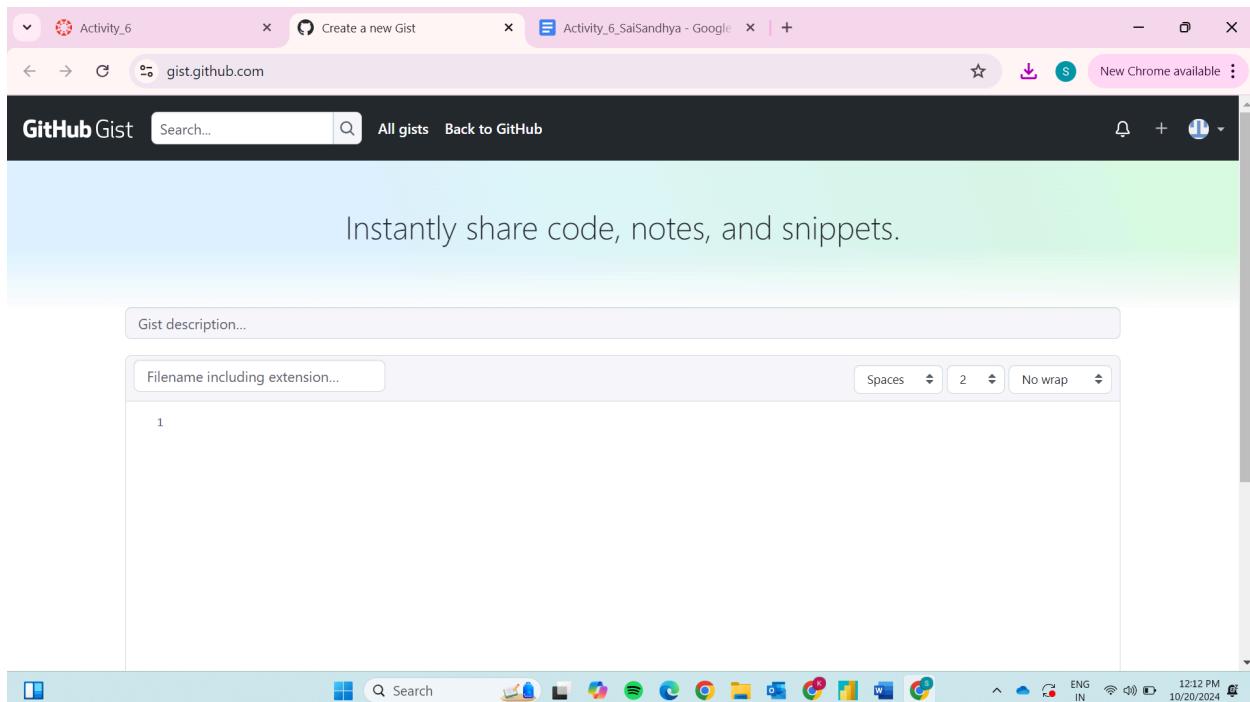


Name : Sai Sandhya Nannapaneni
ID : 11683731

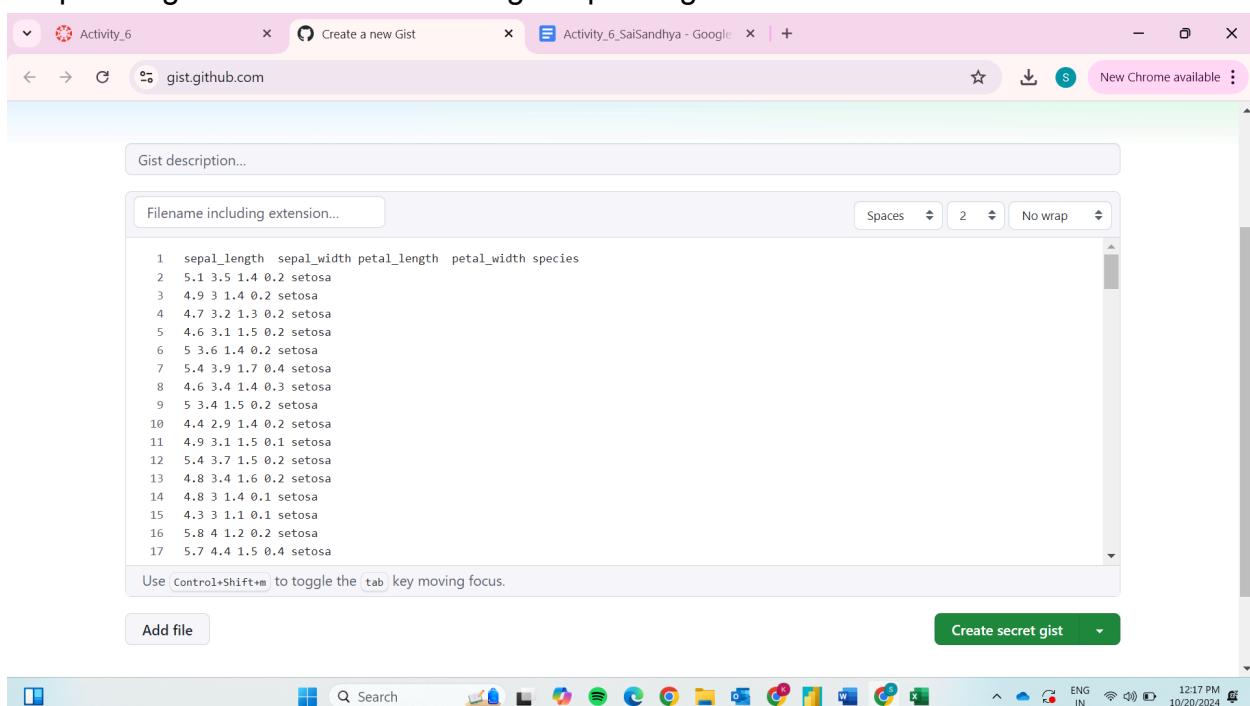
TASK - 1

-> Opening the gist.github



The screenshot shows a web browser window with three tabs open. The active tab is 'Activity_6_SaiSandhya - Google' with the URL 'gist.github.com'. The title bar also displays 'Activity_6' and 'Create a new Gist'. The main content area is a GitHub Gist editor. It features a large text input field with the placeholder 'Gist description...'. Below it is another input field labeled 'Filename including extension...' containing '1'. To the right of this field are three dropdown menus for 'Spaces', '2', and 'No wrap'. The bottom of the editor has a note: 'Use Control+Shift+→ to toggle the tab key moving focus.' At the bottom right of the editor is a green button labeled 'Create secret gist'. The browser's status bar at the bottom shows the date and time as 10/20/2024 12:12 PM.

-> uploading the csv file and creating the public gist



This screenshot shows the same GitHub Gist editor as the previous one, but now with a CSV file uploaded. The text input field contains the following data:

```
1  sepal_length  sepal_width  petal_length  petal_width  species
2  5.1 3.5 1.4 0.2  setosa
3  4.9 3 1.4 0.2  setosa
4  4.7 3.2 1.3 0.2  setosa
5  4.6 3.1 1.5 0.2  setosa
6  5 3.6 1.4 0.2  setosa
7  5.4 3.9 1.7 0.4  setosa
8  4.6 3.4 1.4 0.3  setosa
9  5 3.4 1.5 0.2  setosa
10 4.4 2.9 1.4 0.2  setosa
11 4.9 3.1 1.5 0.1  setosa
12 5.4 3.7 1.5 0.2  setosa
13 4.8 3.4 1.6 0.2  setosa
14 4.8 3 1.4 0.1  setosa
15 4.3 3 1.1 0.1  setosa
16 5.8 4 1.2 0.2  setosa
17 5.7 4.4 1.5 0.4  setosa
```

The rest of the interface is identical to the first screenshot, including the 'Create secret gist' button and the status bar at the bottom.

-> All the data we have pasted in the gist hub and then we are selecting to create the public gist.

The screenshot shows a browser window with three tabs: 'Activity_6' (highlighted), 'Create a new Gist', and 'Activity_6_SaiSandhya - Google'. The main content area displays a text file with 150 rows of Iris dataset data. Below the text area is a note: 'Use Control+Shift+M to toggle the tab key moving focus.' At the bottom right of the text area is a button labeled 'Add file'. To the right of the text area is a dropdown menu with 'Create secret gist' selected. A tooltip for 'Create secret gist' explains that secret gists are hidden by search engines but visible to anyone you give the URL to. A blue button labeled 'Create public gist' is highlighted, with a tooltip stating 'Public gists are visible to everyone.' The browser's address bar shows 'gist.github.com'. The status bar at the bottom indicates it's 12:18 PM on 10/20/2024.

-> Created the public gist

The screenshot shows a browser window with three tabs: 'Activity_6' (highlighted), 'gistd89a1693f3719a31b5ccba5' (selected), and 'Activity_6_SaiSandhya - Google'. The main content area shows a GitHub Gist page for 'SandhyaNannapaneni / gist:d89a1693f3719a31b5ccba5211eca328'. The page was 'Created now'. It features a 'Code' section containing the same 150 rows of Iris dataset data. Below the code are buttons for 'Unsubscribe', 'Edit', 'Delete', and 'Star 0'. At the bottom are links for 'Embed', 'script src="https://...', 'Download ZIP', and a 'Raw' button. The browser's address bar shows 'gist.github.com/SandhyaNannapaneni/d89a1693f3719a31b5ccba5211eca328'. The status bar at the bottom indicates it's 12:20 PM on 10/20/2024.

-> clicking on the raw button and then it was displaying the complete dataset that is in csv file in the link.

<https://gist.githubusercontent.com/SandhyaNannapaneni/d89a1693f3719a31b5ccba5211eca328/raw/2af7c0aec8d65d951c9cb4ef09b0856b24103f13/gistfile1.txt>

	sepal_length	sepal_width	petal_length	petal_width	species
5.1	3.5	1.4	0.2	0.2	setosa
4.9	3	1.4	0.2	0.2	setosa
4.7	3.2	1.3	0.2	0.2	setosa
4.6	3.1	1.5	0.2	0.2	setosa
5	3.6	1.4	0.2	0.2	setosa
5.4	3.9	1.7	0.4	0.4	setosa
4.6	3.4	1.4	0.3	0.3	setosa
5	3.4	1.5	0.2	0.2	setosa
4.4	2.9	1.4	0.2	0.2	setosa
4.9	3.1	1.5	0.1	0.1	setosa
5.4	3.7	1.5	0.2	0.2	setosa
4.8	3.4	1.6	0.2	0.2	setosa
4.8	3	1.4	0.1	0.1	setosa
4.3	3	1.1	0.1	0.1	setosa
5.8	4	1.2	0.2	0.2	setosa
5.7	4.4	1.5	0.4	0.4	setosa
5.4	3.9	1.3	0.4	0.4	setosa
5.1	3.5	1.4	0.3	0.3	setosa
5.7	3.8	1.7	0.3	0.3	setosa
5.1	3.8	1.5	0.3	0.3	setosa
5.4	3.4	1.7	0.2	0.2	setosa
5.1	3.7	1.5	0.4	0.4	setosa
4.6	3.6	1	0.2	0.2	setosa
5.1	3.3	1.7	0.5	0.5	setosa
4.8	3.4	1.9	0.2	0.2	setosa
5	3	1.6	0.2	0.2	setosa
5	3.4	1.6	0.4	0.4	setosa
5.2	3.5	1.5	0.2	0.2	setosa
5.2	3.4	1.4	0.2	0.2	setosa
4.7	3.2	1.6	0.2	0.2	setosa
4.8	3.1	1.6	0.2	0.2	setosa
5.4	3.4	1.5	0.4	0.4	setosa
5.2	4.1	1.5	0.1	0.1	setosa
5.5	4.2	1.4	0.2	0.2	setosa
4.9	3.1	1.5	0.1	0.1	setosa

-> In a github creating the new repository.

Home

Start writing code

Start a new repository for SandhyaNannapaneni

A repository contains all of your project's files, revision history, and collaborator discussions.

Repository name *

name your new repository...

Public
Anyone on the internet can see this repository

Private
You choose who can see and commit to this repository

Create a new repository

Introduce yourself with a profile README

Share information about yourself by creating a profile README, which appears at the top of your profile page.

->Giving the repository name, description, selecting the public and checking the readme file box and then we are creating the repository.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner * SandhyaNannapaneni / **Repository name *** Activity6_Datasets
 Activity6_Datasets is available.

Great repository names are short and memorable. Need inspiration? How about `redesigned-potato` ?

Description (optional) Activity6_Datasets

Public Anyone on the internet can see this repository. You choose who can commit.
 Private You choose who can see and commit to this repository.

Initialize this repository with:
 Add a README file
 This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

-> Uploading the files in the repository.

Activity6_Datasets

SandhyaNannapaneni Initial commit 2ca78e3 · 2 minutes ago

README.md Initial commit 2 minutes ago

README

Activity6_Datasets

Activity6_Datasets

About

- Activity6_Datasets
- Readme
- Activity
- 0 stars
- 1 watching
- 0 forks

Releases

No releases published [Create a new release](#)

Packages

No packages published [Publish your first package](#)

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-> Adding all the files into the repository.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'Upload files · SandhyaNannapaneni · GitHub' at the URL github.com/SandhyaNannapaneni/Activity6_Datasets/upload/main. The page displays a large text input field with a placeholder 'Drag additional files here to add them to your repository' and a 'choose your files' button. Below this, a list of uploaded files is shown:

- Activity6_Population.csv
- bubblechart.csv
- data.csv
- iris.csv

A modal dialog titled 'Commit changes' is open in the foreground, containing fields for 'Add files via upload' and an optional 'extended description...'. It includes two radio button options: one selected for 'Commit directly to the main branch.' and another for 'Create a new branch for this commit and start a pull request.' A green 'Commit changes' button is at the bottom left of the modal.

-> Now clicking on the commit changes button then the uploaded files will be displayed.

The screenshot shows the same browser window after the 'Commit changes' button was clicked. The modal dialog is now closed, and the uploaded files are listed in the main content area of the GitHub page. The files listed are:

- bubblechart.csv
- data.csv
- iris.csv

The GitHub interface shows the files have been successfully uploaded and are ready for further action.

The screenshot shows a GitHub repository page for 'Activity6_Datasets'. The repository has 1 branch and 0 forks. It contains files: Activity6_Population.csv, README.md, bubblechart.csv, data.csv, and iris.csv. The README file is open. The repository has 2 commits from SandhyaNannapaneni. The repository details show 0 stars and 1 watching.

-> opening a dataset.

The screenshot shows the 'Activity6_Population.csv' file preview on GitHub. The file contains 236 lines of data. The first few rows of the CSV data are:

	Country	Country code	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
2	China	156	554419	569909	582576	593366	603052	612242	621363	630678	640296	650213	660408
3	India	356	376325	382377	388799	395544	402579	409881	417443	425271	433381	441799	450548
4	United States of America	840	158804	160872	163266	165910	168736	171685	174705	177751	180788	183786	186721
5	Indonesia	360	69543	70849	72275	73821	75488	77273	79173	81179	83284	85478	87751
6	Pakistan	586	37542	37993	38517	39109	39767	40488	41270	42111	43011	43971	44989
7	Brazil	76	53975	55606	57284	58999	60749	62534	64356	66221	68140	70123	72179
8	Nigeria	566	37860	38424	39035	39686	40371	41086	41831	42605	43412	44255	45138
9	Bangladesh	50	37895	38706	39490	40292	41150	42086	43114	44233	45435	46701	48014
10	Russian Federation	643	102799	104305	105967	107727	109537	111355	113154	114914	116622	118276	119872
11	Mexico	484	27945	28750	29590	30469	31389	32351	33355	34402	35488	36612	37772
12	Japan	392	82802	84316	85659	86870	87981	89018	90004	90954	91878	92782	93674

-> click on the raw button then one link will be created and now we can access the complete data using the link below.

https://raw.githubusercontent.com/SandhyaNannapaneni/Activity6_Datasets/refs/heads/main/Activity6_Population.csv

Country,Country
code,1958,1951,1952,1953,1954,1955,1956,1957,1958,1959,1960,1961,1962,1963,1964,1965,1966,1967,1968,1969,1970,1971,1972,1973,1974,1975,1976,1977,1978,1979,1980,1981,19
82,1983,1984,1985,1986,1987,1988,1989,1990,1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015
,2016,2017,2018,2019,2020
China,156,554419,569089,582576,593366,603052,612242,621363,630678,640296,650213,660408,670953,682103,694339,708255,724219,742415,762581,784075,805986,827601,848760,869
486,889485,908464,926241,942685,957891,972205,986132,1000089,1014022,1027949,1042431,1058172,1075589,1095814,1116095,1137724,1158357,1176884,1192897,1206711,1218817,12
30020,1240921,1251636,1261994,1271982,1281515,1290551,1299130,1307352,1315304,1323085,133076,1338409,1345994,1353569,1361169,1368811,1376498,1384206,1391883,1399454,1
406848,1414049,1421022,1427648,1433784,1439324
India,360,376325,382378,388799,395544,402579,409881,417443,425271,433384,441799,450548,459642,469848,499123,509631,520401,531514,543084,555190,567868,581
087,594770,608803,623103,637630,652409,667500,682295,698953,715385,723239,749429,766833,784366,801975,819682,837476,855335,873278,891273,909307,927494,945602,963923,98
2365,1000900,1019484,1038058,1056576,1075000,1093317,1111523,1129623,1147610,1165486,1183209,1200670,1217726,1234281,1250288,1265780,1280842,1295601,1310152,1324517,13
38677,1352642,1366418,1380004
United States of America,846,158804,160872,163266,165910,168736,171685,174705,177751,180788,183786,186721,189570,192314,194932,197408,199734,201896,203905,205806,207659,209513,211384,2
13270,215179,217115,219081,221086,223136,225223,227339,229476,231636,233822,236039,238257,240508,242763,245853,247372,249726,252128,254539,256991,259532,262241,265164,
268335,271714,275175,278548,281711,284608,287279,289816,292355,294994,297759,300608,303466,306308,308911,311584,314044,316401,318673,320878,323016,325085,327096,329065
,331003
Indonesia,360,695201,72275,73821,75488,77273,79173,81179,83284,85478,87751,90899,92518,95015,97597,100267,103023,105866,108788,111759,114779,117880,121017,124200,
127422,130681,133967,137278,140622,144010,147448,150938,154468,158009,161523,164982,168374,171703,174976,178209,181413,184592,187740,190851,193917,196934,199901,202826
,205725,208615,211514,214427,220309,223286,226281,229318,232374,235470,238621,241834,245116,248452,251826,258383,261556,264651,267671,270626,273524
Pakistan,586,37542,37993,38517,39109,39767,40488,41276,42111,43011,43971,44989,46065,47199,48387,49628,50918,52260,53654,55103,56598,58142,59734,61382,63099,64906,6681
7,68834,70958,73197,75561,78054,80680,83432,86236,89214,92192,95215,98286,101390,104513,107648,116779,119311,117887,120363,123777,127349,131057,134845,138625,142344,14
5978,149550,150593,156665,160304,164023,167806,171649,17526,179425,183340,187286,191261,195985,199427,203651,207966,212228,216565,220892
Brazil,76,53975,55666,57284,58999,60749,62534,64356,66221,68148,70123,72179,74511,76514,78773,81605,83374,85697,88036,90387,92747,95113,97483,99859,102259,104706,10721
6,109791,112425,115121,117878,120694,123570,126498,132384,135274,138189,140892,143628,146328,149083,151648,154250,156849,159433,162826,164615,167209,169785,1723
19,174798,177196,181189,184086,186127,188167,189130,192030,193887,195714,197515,199287,201836,202764,204472,206163,207834,209469,211050,212559
Nigeria,566,37860,38424,39035,39686,40871,41086,41831,42605,43412,44255,45138,46064,47030,48033,49067,50128,51218,52342,53506,54717,55982,57297,58666,60115,61677,63374
,65221,67208,69272,71361,73424,75441,77428,79415,81449,83563,85766,88046,90395,92788,95212,97668,100162,102701,105294,107948,110669,113458,116320,119260,122284,125394,
128596,131901,135320,138865,142538,154325,158583,162805,167229,171766,176405,181137,185960,198873,198757,200964,206140
Bangladesh,59,37895,38700,39490,40292,41150,42086,43114,44233,45435,46701,48014,49363,50752,52208,53742,55384,57158,59034,60918,62680,64232,65532,66626,67638,68742,700
66,71652,73464,75458,77529,79639,81768,83932,86142,88447,90764,93188,95671,98186,100695,103172,105599,107984,110351,112738,115170,117659,120161,122683,125190,127658,13
0089,132478,134792,136985,139036,140921,142660,144304,145925,147575,149273,151006,152761,154517,156256,157977,159683,161377,163046,164689
Russian Federation,643,102799,104305,105967,107727,109537,111355,113154,114914,116622,118276,119872,121404,122858,124210,125431,126504,127417,128187,128860,129498,130149,13083
1,131540,132276,133032,133805,134596,135413,136260,137139,138053,13894,139955,140936,141938,142957,143995,145033,146013,146864,147532,147996,148269,148374,148349,1482
27,148021,147730,147361,146916,146405,145831,145216,144611,144881,143672,143266,143249,143327,143479,143703,143994,144325,144665,144985,145275,145530,145734,145
27,148021,147730,147361,146916,146405,145831,145216,144611,144881,143672,143266,143249,143327,143479,143703,143994,144325,144665,144985,145275,145530,145734,145

-> Creating the bar chart using vizhub. Selecting the project from most forked/ most popular.

Activity_6 VizHub Search Results Activity_6_SaiSandhya - Google raw.githubusercontent.com/Sar ... + - ×

Search

NizHub

Sort by Most popular + Create viz

Most recent Most forked

Smiling face

Smile - 003

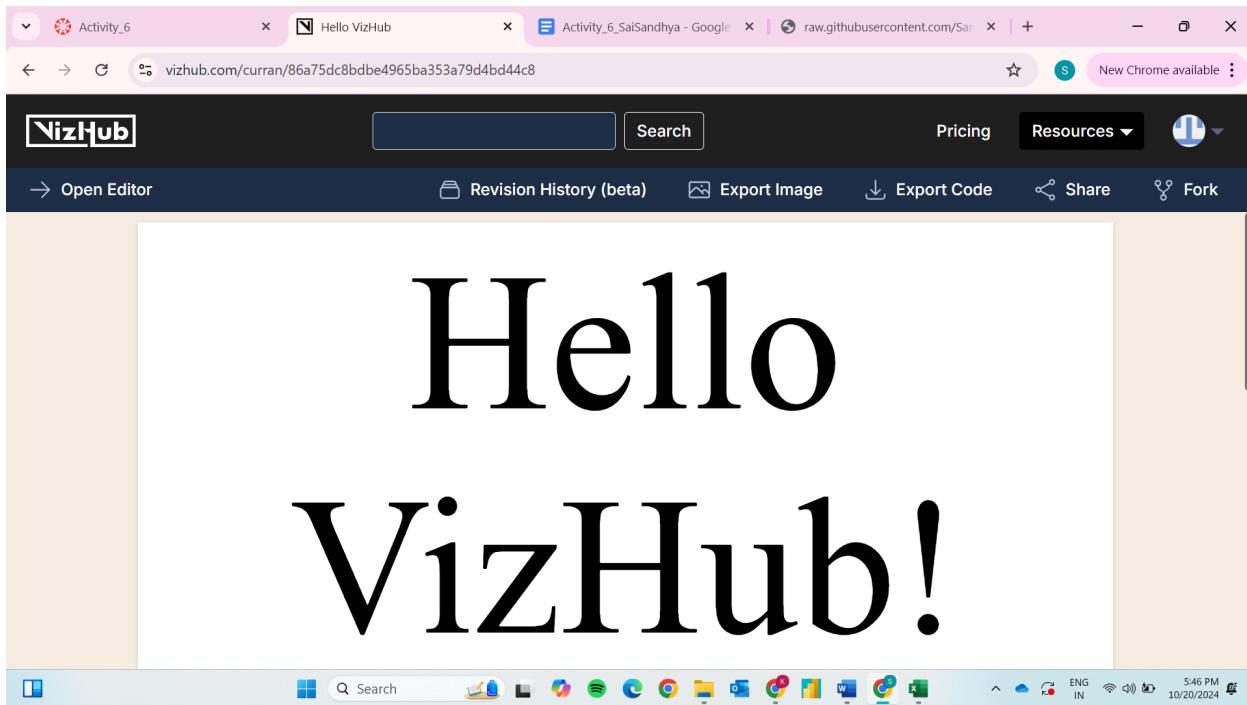
Learn to draw smile with d3

6 Forks 1 Star João Pedro Sep 01, 2023 Alan Wilson Feb 11, 2020 Ajit Singh Dec 08, 2020

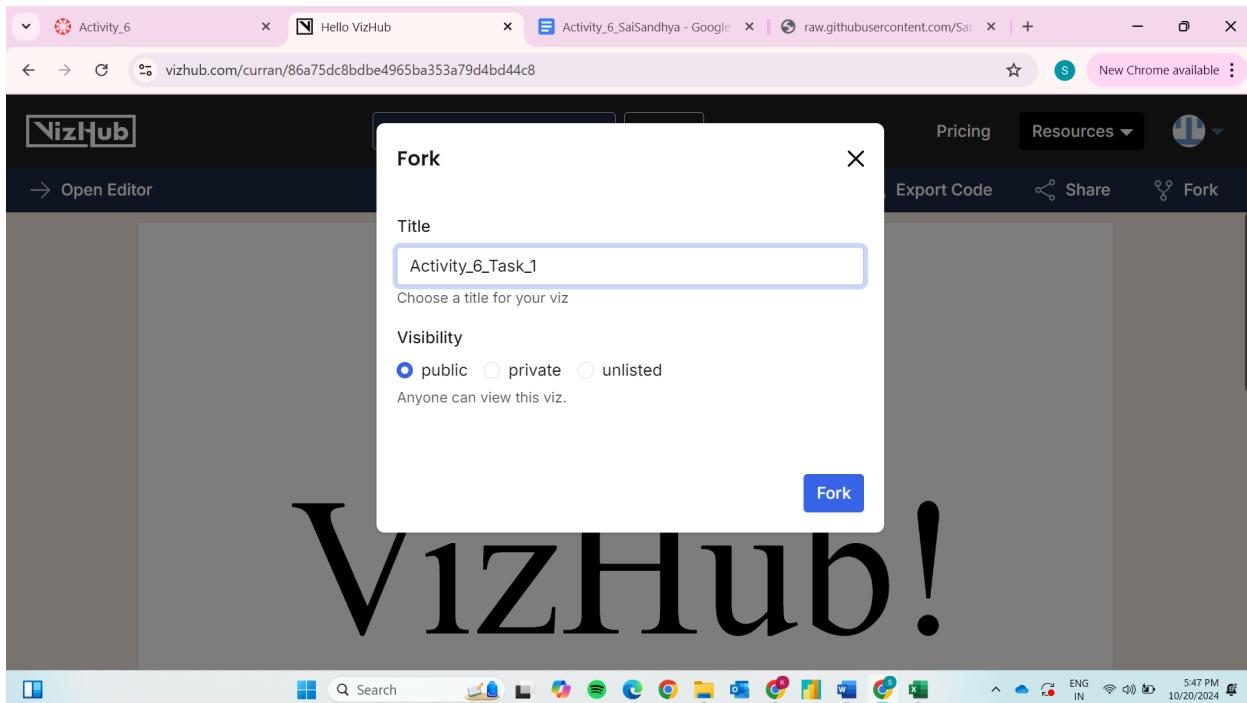
Pricing Resources

5:06 PM 10/20/2024

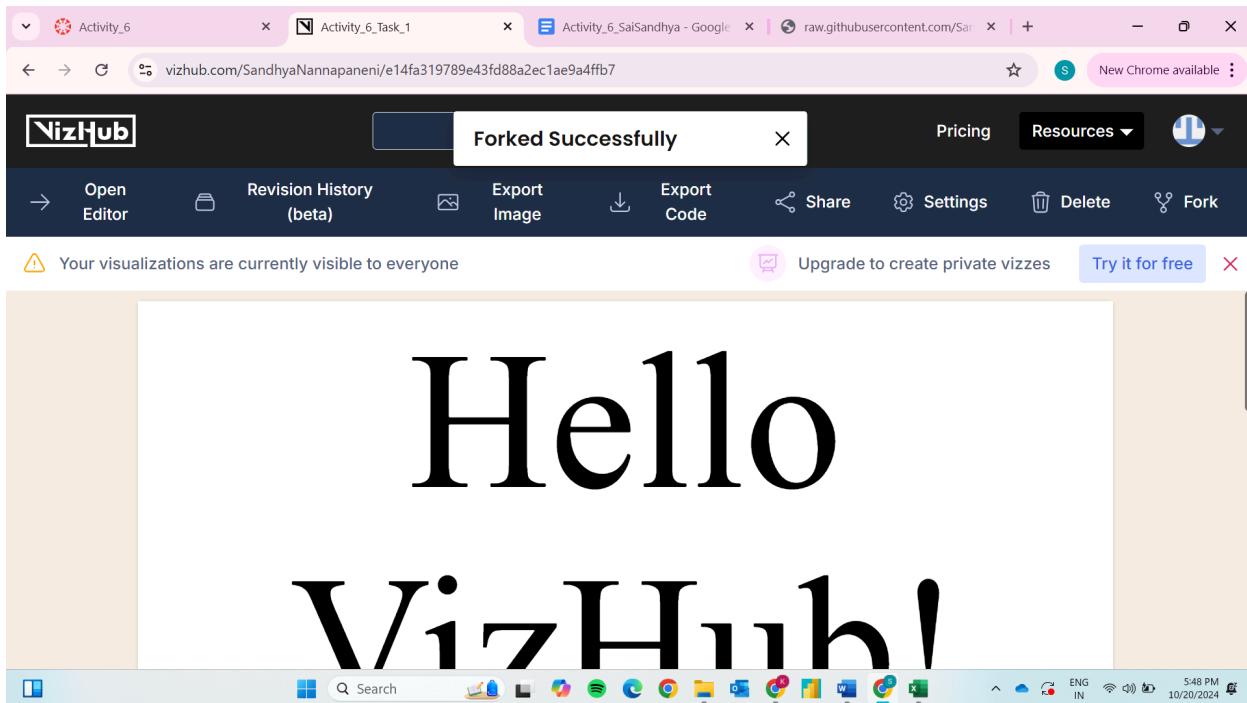
-> Selecting "Hello VizHub!" project from most forked project.



-> Click on the fork symbol for saving the changes.

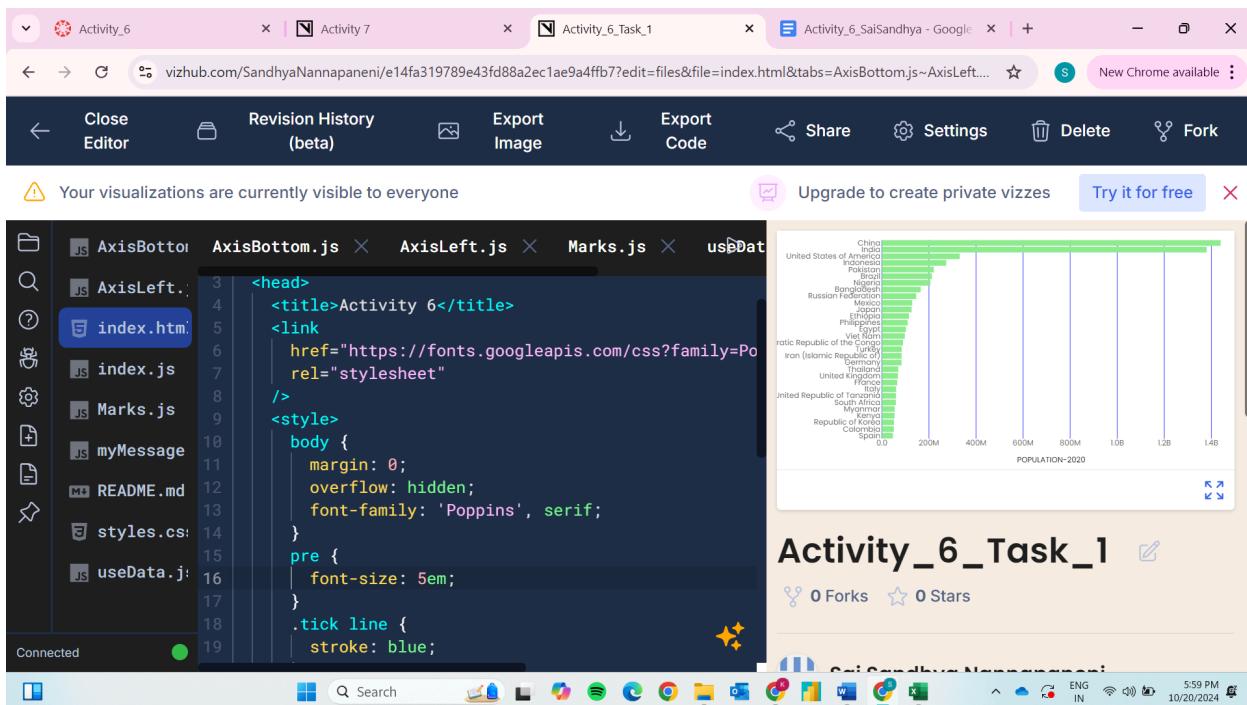


-> click on the fork for creating



-> Clicking on the open editor and edit all the files

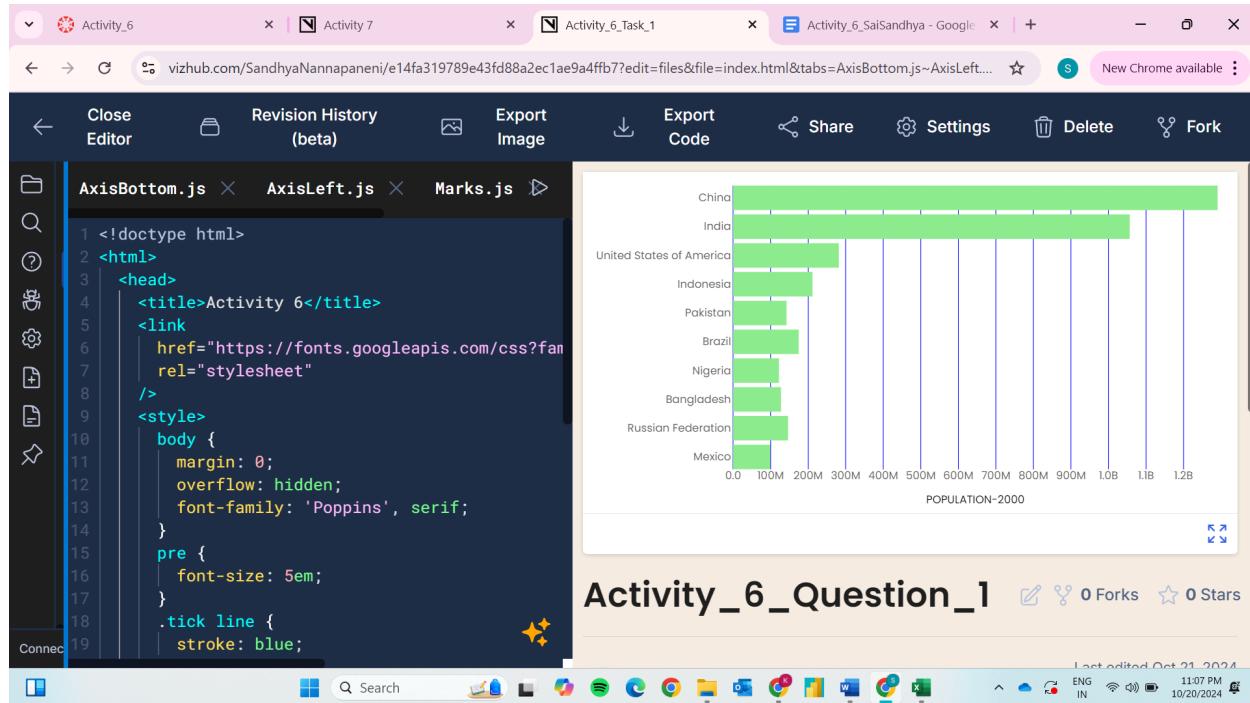
[https://vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=index.html&tabs=AxisBottom.js~AxisLeft...
ENG IN 10/20/2024](https://vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=index.html&tabs=AxisBottom.js%7EAxisLeft.js%7EMarks.js%7EuseData.js%7Eindex.html)



Question - 1

-> By using the Activity6_Population dataset we are displaying the populations of 10 countries in the year 2000 and displayed the visualization in the vizhub.

<https://vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=index.html&tabs=AxisBottom.js%7EAxisLeft.js%7EMarks.js%7EuseData.js%7Eindex.html>



-> Creating the bar chart using the 20 countries in 2010 and displaying the visualization in the vizhub.

<https://vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=index.js&tabs=AxisBottom.js%7EAxisLeft.js%7EMarks.js%7EuseData.js%7Eindex.js>

Activity_6 Activity 7 Activity_6_Task_1 Activity_6_SaiSandhya - Google

vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=index.js&tabs=AxisBottom.js~AxisLeft.js~...

Close Editor Revision History (beta) Export Image Export Code Share Settings Delete Fork

AxisBottom.js

```

72         textAnchor="middle"
73     >
74     POPULATION-2010
75   <text>
76   <Marks
77     data={data}
78     xScale={xScale}
79     yScale={yScale}
80     xValue={xValue}
81     yValue={yValue}
82     tooltipFormat={xAxisTickFormat}
83   >
84   </g>
85 </svg>
86 );
87 };
88 const rootElement = document.getElementById('root');
89 ReactDOM.render(<App />, rootElement);

```

Marks.js

Country	Population (millions)
China	1.3B
India	1.3B
United States of America	300M
Indonesia	250M
Pakistan	200M
Brazil	180M
Nigeria	150M
Bangladesh	120M
Russian Federation	100M
Mexico	90M
Japan	80M
Ethiopia	70M
Philippines	60M
Egypt	50M
Viet Nam	40M
Democratic Republic of the Congo	30M
Turkey	30M
Iran (Islamic Republic of)	20M
Germany	15M
Thailand	10M

Activity_6_Question_1_2 0 Forks 0 Stars

Last edited Oct 21, 2024 11:14 PM 10/20/2024

Activity_6 Activity 7 Activity_6_Task_1 Activity_6_SaiSandhya - Google

vizhub.com/SandhyaNannapaneni/e14fa319789e43fd88a2ec1ae9a4ffb7?edit=files&file=useData.js&tabs=AxisBottom.js~AxisLeft.js~...

Close Editor Revision History (beta) Export Image Export Code Share Settings Delete Fork

AxisBottom.js

```

1 import React, { useState, useEffect } from 'react';
2 import { csv } from 'd3';
3
4 const csvUrl =
5   'https://raw.githubusercontent.com/SandhyaNan...
```

AxisLeft.js

```

1 import React, { useState, useEffect } from 'react';
2 import { csv } from 'd3';
3
4 const csvUrl =
5   'https://raw.githubusercontent.com/SandhyaNan...
```

Marks.js

Country	Population (millions)
China	1.3B
India	1.3B
United States of America	300M
Indonesia	250M
Pakistan	200M
Brazil	180M
Nigeria	150M
Bangladesh	120M
Russian Federation	100M
Mexico	90M
Japan	80M
Ethiopia	70M
Philippines	60M
Egypt	50M
Viet Nam	40M
Democratic Republic of the Congo	30M
Turkey	30M
Iran (Islamic Republic of)	20M
Germany	15M
Thailand	10M

Activity_6_Question_1_2 0 Forks 0 Stars

Last edited Oct 21, 2024 11:15 PM 10/20/2024

-> In this task we are creating the bar chart using the population dataset for the different years and also changing the labels according to the data we are generating for the different countries.

TASK - 2

->Selecting a new project in vizhub which is most forked.

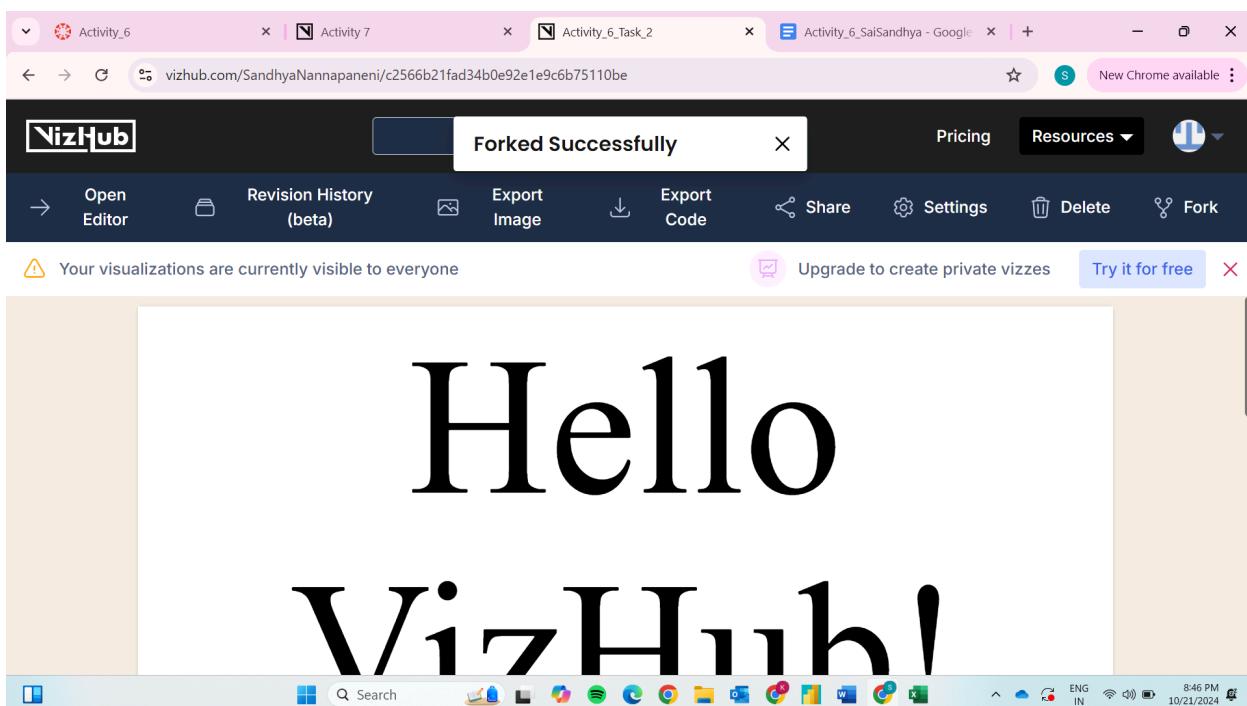
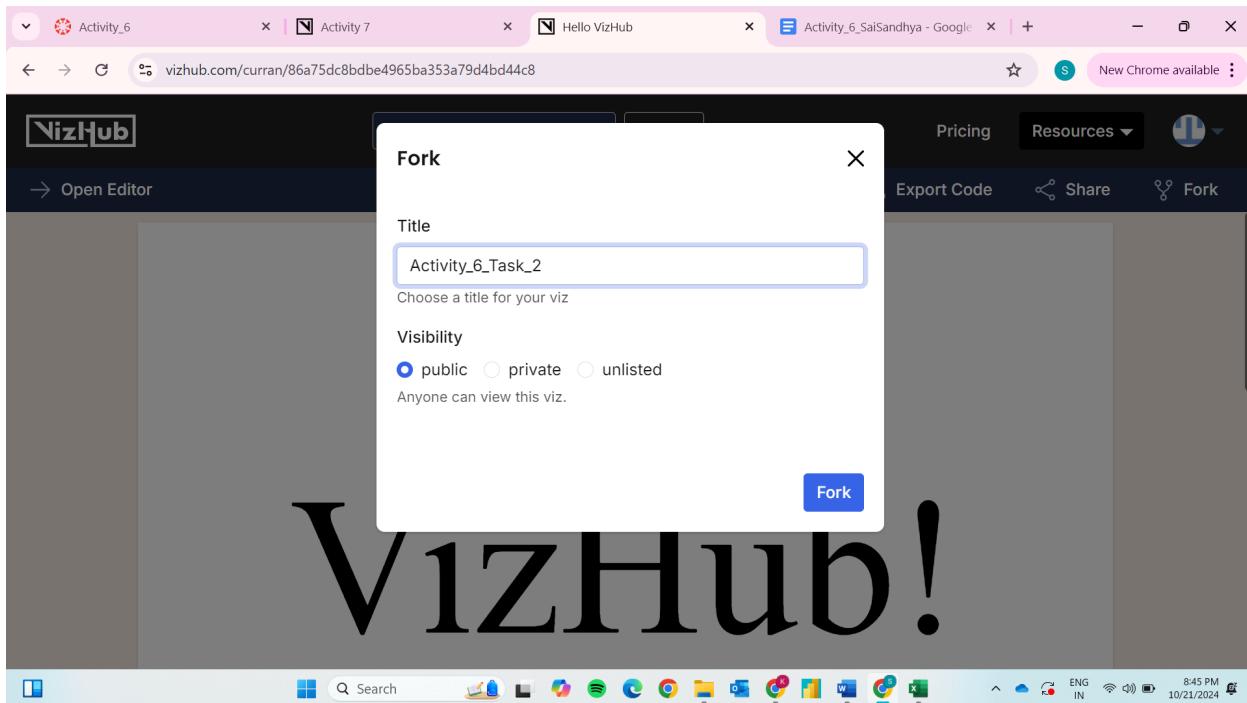
The screenshot shows the VizHub search results page with the query "hello". The results are sorted by popularity. The top result is "Hello VizHub!" with 6.3K forks and 38 stars. A bar chart on the left shows the distribution of population across various countries.

Country	Population (approx.)
China	1450
United States of America	330
India	1400
Indonesia	280
Pakistan	250
Brazil	220
Nigeria	200
Germany	80
Kazakhstan	180
Australia	25
Other	100

-> Selecting the “Hello VizHub” project from most forked projects.

The screenshot shows the VizHub search results page with the query "hello" and the sort option set to "Most forked". The results are now sorted by the number of forks. The top result is "Hello VizHub!" with 6.3K forks and 38 stars. The interface includes a navigation bar with tabs for Activity_6, Activity 7, VizHub Search Results, and Activity_6_SaiSandhya - Google.

-> creating the fork for saving the changes.



-> Clicking on open editor and creating the new files

The screenshot shows a browser window with several tabs open. The active tab is 'Activity_6_Task_2' on VizHub. On the left, there's a code editor for 'data.csv' containing movie genre ratings. On the right, a dashboard displays a large 'Hello VizHub!' message, the title 'Activity_6_Task_2', and author information for 'Sai Sandhya Nannapaneni'. Below the title is a chart titled 'Rating according to genres' showing the percentage distribution of movie ratings across different genres.

-> Creating the files for displaying the ratings of each genre.

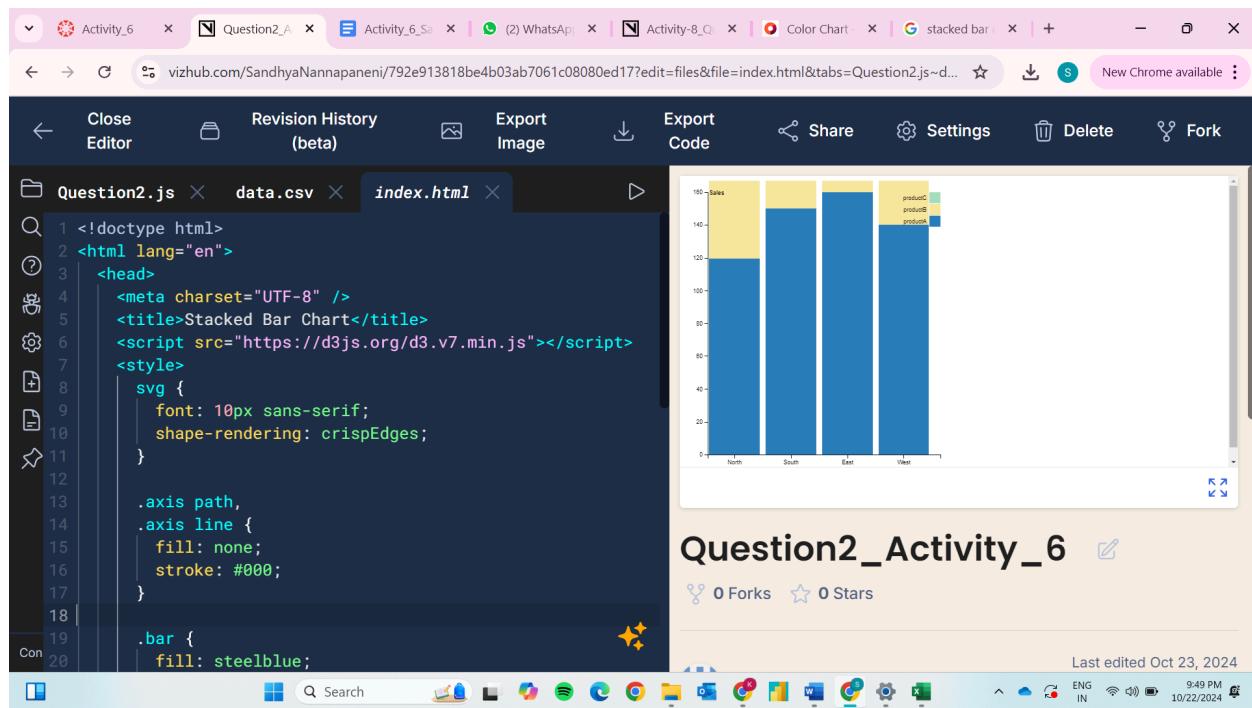
<https://vizhub.com/SandhyaNannapaneni/c2566b21fad34b0e92e1e9c6b75110be?edit=files&file=index.html&tabs=data.csv%7Eindex.html>

This screenshot shows a browser window with the same 'Activity_6_Task_2' tab from the previous image. The code editor now contains a D3.js script for creating a stacked bar chart. The right side of the screen shows the same dashboard as before, including the 'Rating according to genres' chart and the author's profile.

Question - 2

-> Creating the stacked bar chart using the d3.js file with the data.csv file.

<https://vizhub.com/SandhyaNannapaneni/792e913818be4b03ab7061c08080ed17?edit=files&file=index.html&tabs=Question2.js%7Edata.csv%7Eindex.html>



The screenshot shows a browser window with multiple tabs open. The active tab is a code editor for a file named 'index.html' located at <https://vizhub.com/SandhyaNannapaneni/792e913818be4b03ab7061c08080ed17?edit=files&file=index.html&tabs=Question2.js%7Edata.csv%7Eindex.html>. The code editor displays the following HTML and CSS:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <title>Stacked Bar Chart</title>
    <script src="https://d3js.org/d3.v7.min.js"></script>
    <style>
      svg {
        font: 10px sans-serif;
        shape-rendering: crispEdges;
      }

      .axis path,
      .axis line {
        fill: none;
        stroke: #000;
      }

      .bar {
        fill: steelblue;
      }
    </style>
  </head>
  <body>
    <script>
      const data = [
        {Region: "North", ProductA: 120, ProductB: 60, ProductC: 30},
        {Region: "South", ProductA: 150, ProductB: 70, ProductC: 20},
        {Region: "East", ProductA: 160, ProductB: 80, ProductC: 10},
        {Region: "West", ProductA: 140, ProductB: 50, ProductC: 10}
      ];
    </script>
  </body>
</html>
```

To the right of the code editor is a stacked bar chart titled "Sales". The chart has four bars representing different regions: North, South, East, and West. Each bar is composed of three segments representing Product A (steelblue), Product B (light yellow), and Product C (light green). The total height of each bar corresponds to the cumulative sales for that region.

The visualization is titled "Question2_Activity_6". It includes a "Last edited Oct 23, 2024" timestamp and a "0 Forks" and "0 Stars" indicator.

-> The first different tender agrees to buy and bring the goods manipulating three elements of the three ranking sales structures, that is the Product A, Product B or Product C in the Products group according to four cardinal points, for ease of distribution (Northwards, Southwards, Eastwards, Westwards). With this getting close to the vision of the total person, and some operational strategies take more shape after this. This is complete from the point of view of these tables sense of economic activity in an area of different activities of the enterprise. Such measures saw the teachings increase those present back in the city where I belong up north to be specific; the cumulative market potential up north was projected at 120 units for Product A, 60 units for Product B and 30 units of C and so on. Different products are integrated in the promotion strand equally. The marketing division head should understand the client's whereabouts and have a client in his or her focus, the interests which I'll get to soon. All of this is related to the disposable information that most activities are carried out. In the mastering of this knowledge one finds that it is wise to minimize the given resources and in which case the most resources that need to be reduced are consumed in business.

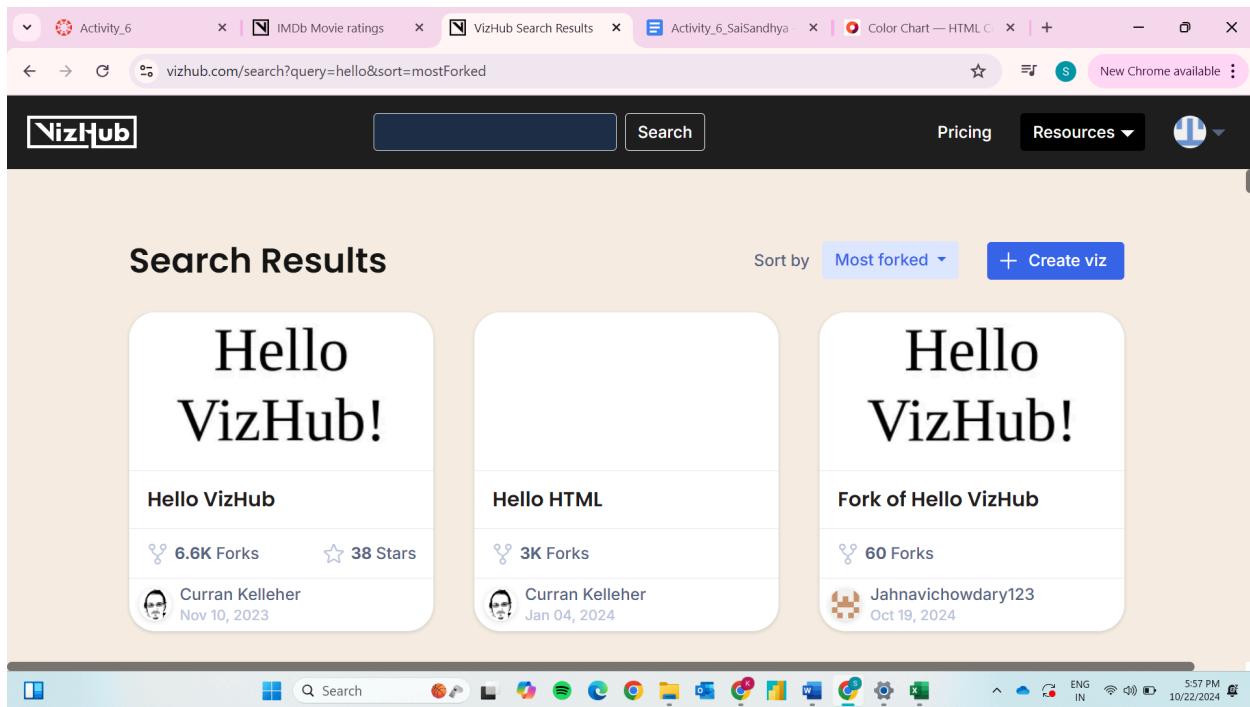
-> The stacked bar chart is used to show sales of two products, Product A and Product B in four directions, North, South, East and West. Each bar as shown on the chart

shows the consolidated sales of the products for that region, and in turn the sales quantity. The bars are further segmented to show which share belongs to which product in that area. We can reduce various aspects by looking at the picture such as in North and East regions, the sales of Product A are better than those of Product B since the blue proportion is greater than the orange on the bar. The reverse is true for South and West regions where the levels of sales for Product B are higher than those of the Product A indicated by more orange sections on the bars. It may look like the total revenue of the South region is the largest, followed by the East region. The North along with the West are below the middle range in terms of sales revenue. Going through this diagram it becomes easy to get an idea of where the products are selling better, which helps the management in facilitating the performance assessment.

Task - 3

3.1

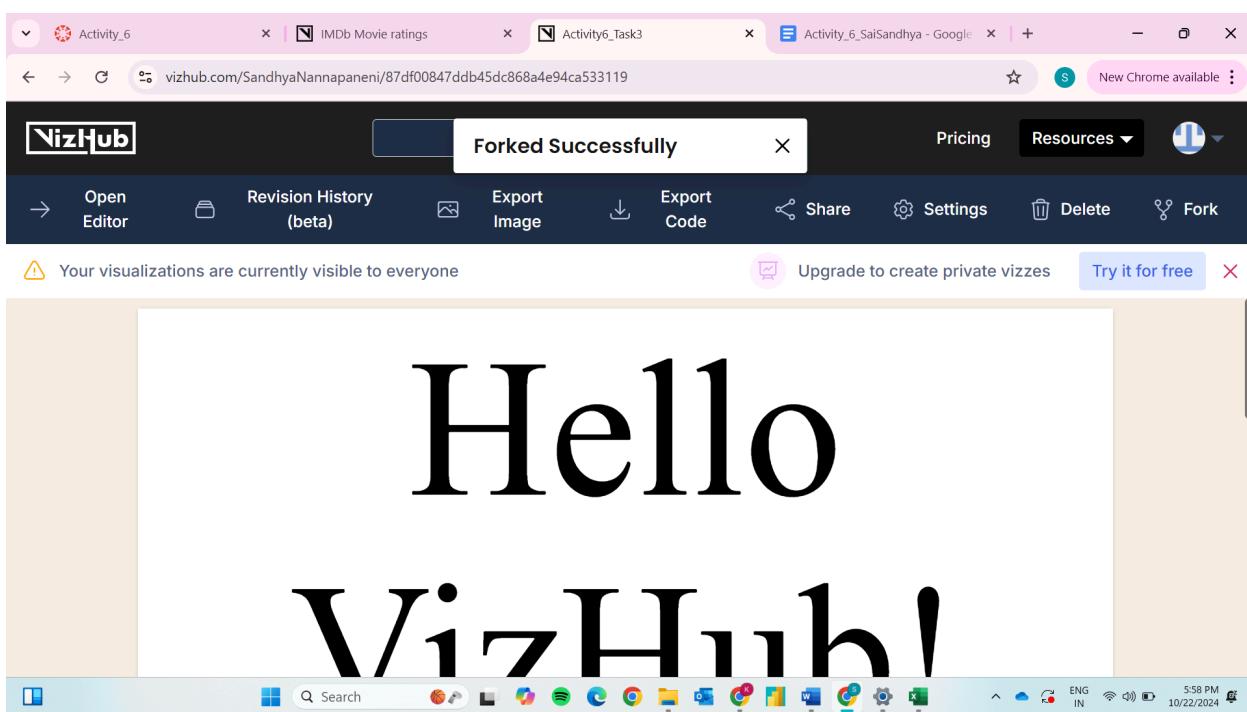
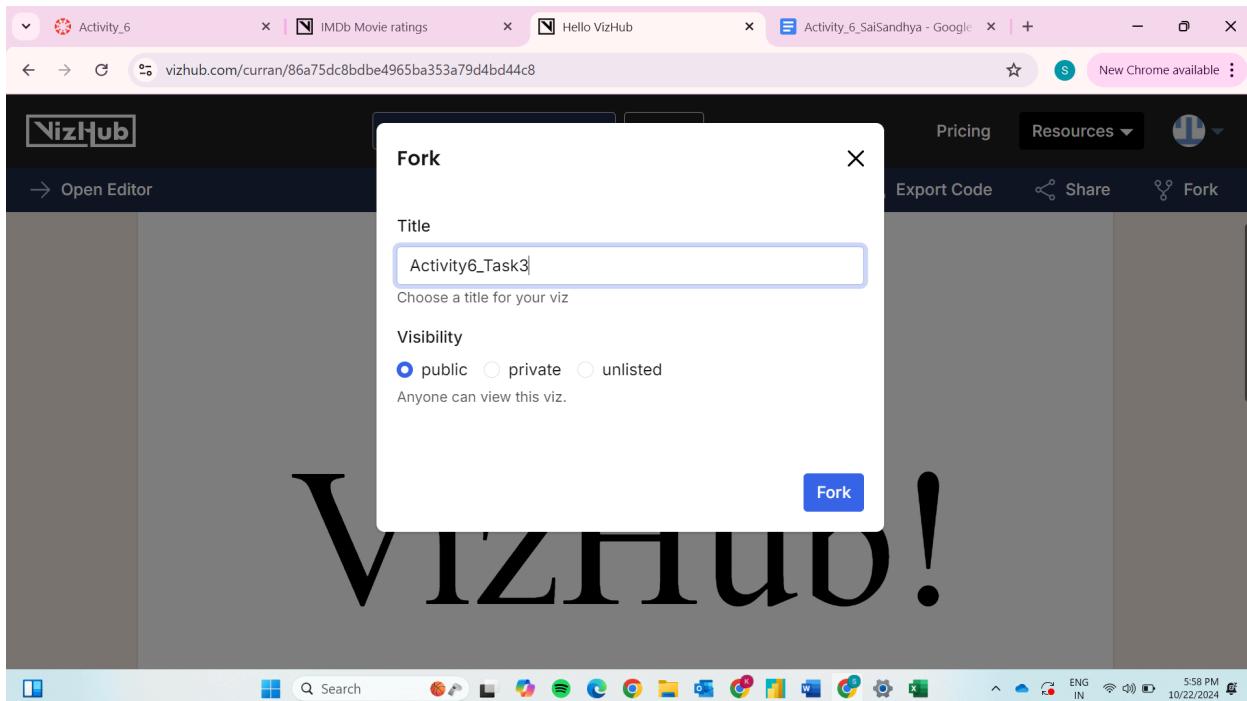
→ selecting the new project which is most forked, opening the hello vizhub and then forking it to save the changes.



The screenshot shows a web browser window with multiple tabs open. The active tab is 'VizHub Search Results' with the URL vizhub.com/search?query=hello&sort=mostForked. The page displays search results for the query 'hello', sorted by 'Most forked'. There are three main project cards:

- Hello VizHub**: Forked 6.6K times by Curran Kelleher on Nov 10, 2023.
- Hello HTML**: Forked 3K times by Curran Kelleher on Jan 04, 2024.
- Fork of Hello VizHub**: Forked 60 times by Jahnavichowdary123 on Oct 19, 2024.

The browser's toolbar and taskbar are visible at the bottom, showing various icons and system status.



->Creating the dataset link by using the gist.github using the Iris.csv dataset.

The screenshot shows a browser window with multiple tabs open. The active tab is a GitHub Gist titled 'iris.csv'. The content of the gist is a CSV file with 150 data points. The first few lines of the CSV are:

```
1 sepal_length sepal_width petal_length petal_width species
2 5.1 3.5 1.4 0.2 setosa
3 4.9 3 1.4 0.2 setosa
4 4.7 3.2 1.3 0.2 setosa
5 4.6 3.1 1.5 0.2 setosa
6 5 3.6 1.4 0.2 setosa
7 5.4 3.9 1.7 0.4 setosa
8 4.6 3.4 1.4 0.3 setosa
9 5 3.4 1.5 0.2 setosa
10 4.4 2.9 1.4 0.2 setosa
11 4.9 3.1 1.5 0.1 setosa
12 5.4 3.7 1.5 0.2 setosa
13 4.8 3.4 1.6 0.2 setosa
14 4.8 3 1.4 0.1 setosa
15 4.3 3 1.1 0.1 setosa
16 5.8 4 1.2 0.2 setosa
17 5.7 4.4 1.5 0.4 setosa
```

Below the code editor, there is a note: "Use Control+Shift+M to toggle the tab key moving focus." At the bottom of the gist page, there are buttons for "Add file" and "Create secret gist".

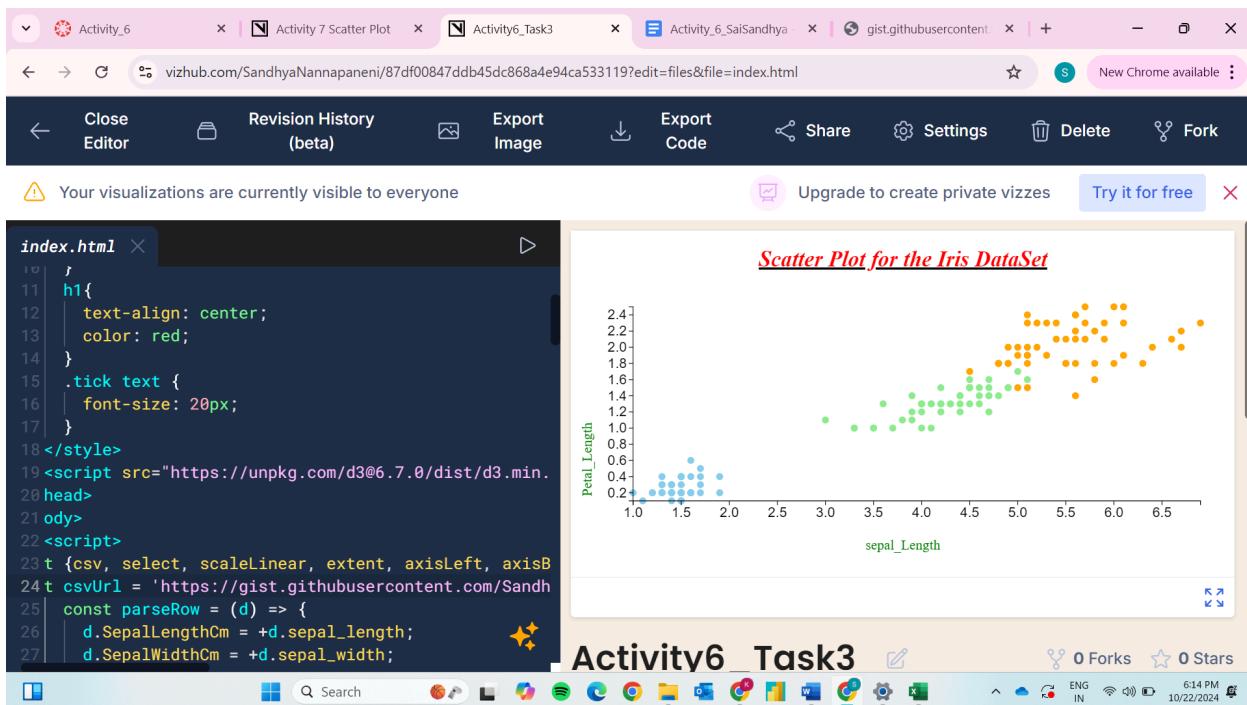
-> clicking on raw button

The screenshot shows the same browser window after clicking the "Raw" button at the top right of the gist content area. The URL in the address bar has changed to <https://gist.github.com/SandhyaNannapaneni/f8834390ee5f9e75b589090f7e37ed4e/raw/177dd7680f7f8938ebc5fdebab86a1b769a9ea3c/iris.csv>. The content of the page is identical to the previous screenshot, displaying the CSV data.

<https://gist.github.com/SandhyaNannapaneni/f8834390ee5f9e75b589090f7e37ed4e/raw/177dd7680f7f8938ebc5fdebab86a1b769a9ea3c/iris.csv>

sepal_length	sepal_width	petal_length	petal_width	species
5.1	3.5	1.4	0.2	setosa
4.9	3	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3	1.4	0.1	setosa
4.3	3	1.1	0.1	setosa
5.8	4	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa
5.4	3.4	1.7	0.2	setosa
5.1	3.7	1.5	0.4	setosa
4.6	3.6	1	0.2	setosa
5.1	3.3	1.7	0.5	setosa
4.8	3.4	1.9	0.2	setosa
5	3	1.6	0.2	setosa
5	3.4	1.6	0.4	setosa
5.2	3.5	1.5	0.2	setosa
5.2	3.4	1.4	0.2	setosa
4.7	3.2	1.6	0.2	setosa
4.8	3.1	1.6	0.2	setosa
5.4	3.4	1.5	0.4	setosa
5.2	4.1	1.5	0.1	setosa
5.5	4.2	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa

-> creating the scatter plot using the iris.csv file.



3.2

-> Using the iris dataset and creating the scatter plot and the 3 differentiating the 3 different species setosa, versicolor and virginica in 3 different shapes.

<https://vizhub.com/SandhyaNannapaneni/bfe59453cd9a4ff6be0d84980334d5e1?edit=files&file=viz.js&tabs=viz.js%7Eaxes.js%7EscatterPlot.js%7EshapeLegend.js%7Estyles.css>

The screenshot shows a VizHub interface with multiple tabs open. The active tab is 'Activity6_Task_3.2'. On the left, there is a code editor with four files: viz.js, axes.js, scatterPlot.js, and shapeLegend.js. The viz.js file contains code for loading data from a GitHub gist and parsing it. The scatterPlot.js file contains the main logic for creating the scatter plot. The scatter plot itself shows Sepal Length on the x-axis and Petal Length on the y-axis, with data points categorized by species. A legend on the right side of the plot identifies the three species: setosa (circle), versicolor (plus), and virginica (diamond).

Question - 3

-> Creating the scatter plot using the d3.js.

<https://vizhub.com/SandhyaNannapaneni/eedcbce5df124a72a52e6e0c0a62226f?edit=files&file=scatter.js&tabs=data.csv%7Escatter.js>

The screenshot shows a VizHub interface with multiple tabs open. The active tab is 'Question_3'. On the left, there is a code editor with three files: data.csv, scatter.js, and styles.css. The scatter.js file contains D3.js code for selecting an SVG element, defining margins, and creating a linear scale for the x-axis. The resulting scatter plot shows several red circular data points on a white background, with 'Value Y' on the y-axis and 'Value X' on the x-axis.

->The information block contains a number of points corresponding to two variables' values: ValueX and ValueY. These details include the following: Category, on the other hand, is a Column 1 here a variable used in order to classify the items into various groups. Each category is denoted by a letter between A and H, however. Category is used to arrange the elements in the group, and for each of the categories, a letter is used for representing it ranging from A to H. ValueX, Column 2, comprises the values of the variable "valueX" in each and every category. These numbers illustrate both the size and the intensity of whatever the X-axis represents in the given subgroup. ValueY, Column 3, includes the values of another variable referred to as "valueY" for all the defined categories. These numbers are also related to one of the orientation categories or the valueX.

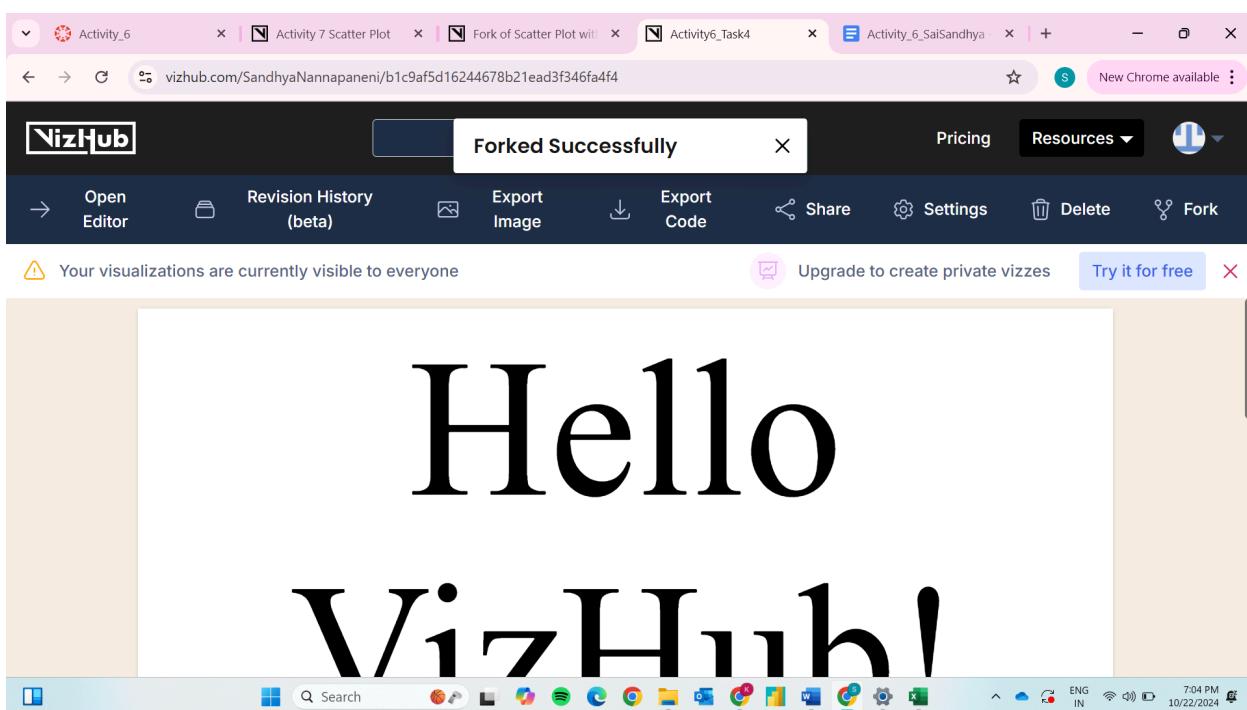
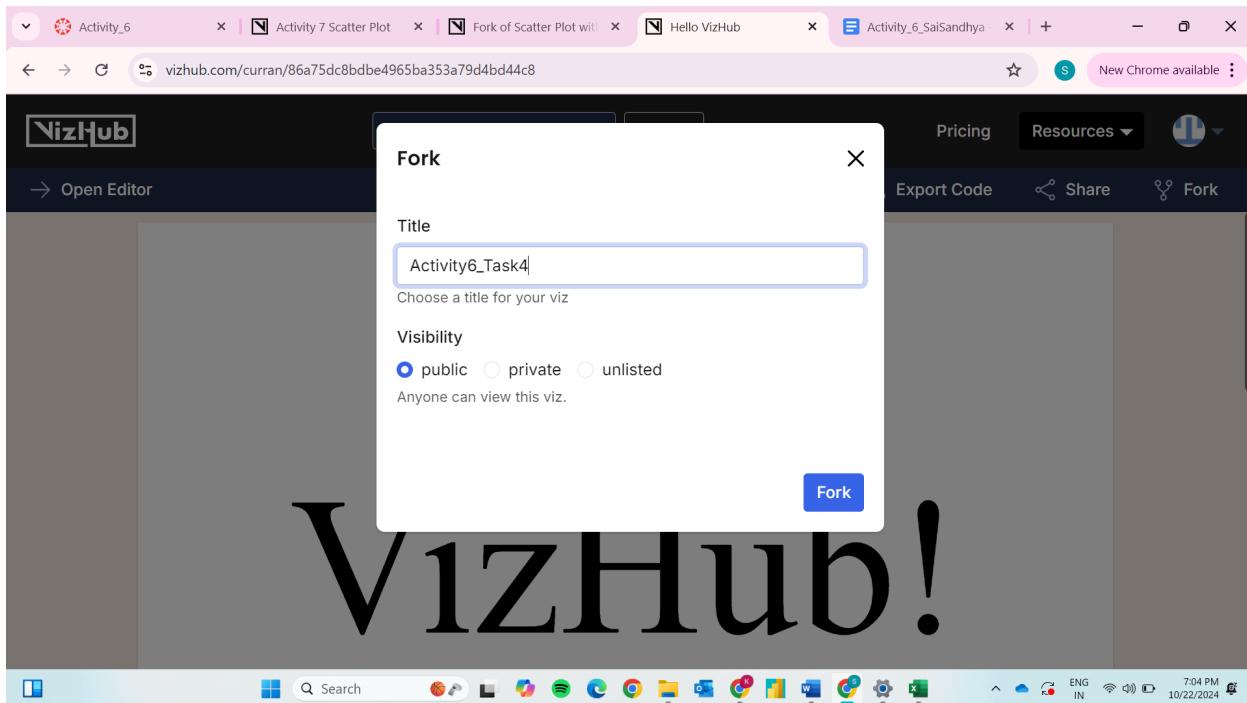
-> Two variables, Value X and Value Y, have been plotted against one another for different subject matter proving a point. Even though from this scatter plot viewers may infer that there's a correlation among factors, they cannot say anything about the strength of such a relationship. The purpose of colors is clearly explained as they are used to highlight the different categories.

TASK - 4

-> selecting the new project which is most forked

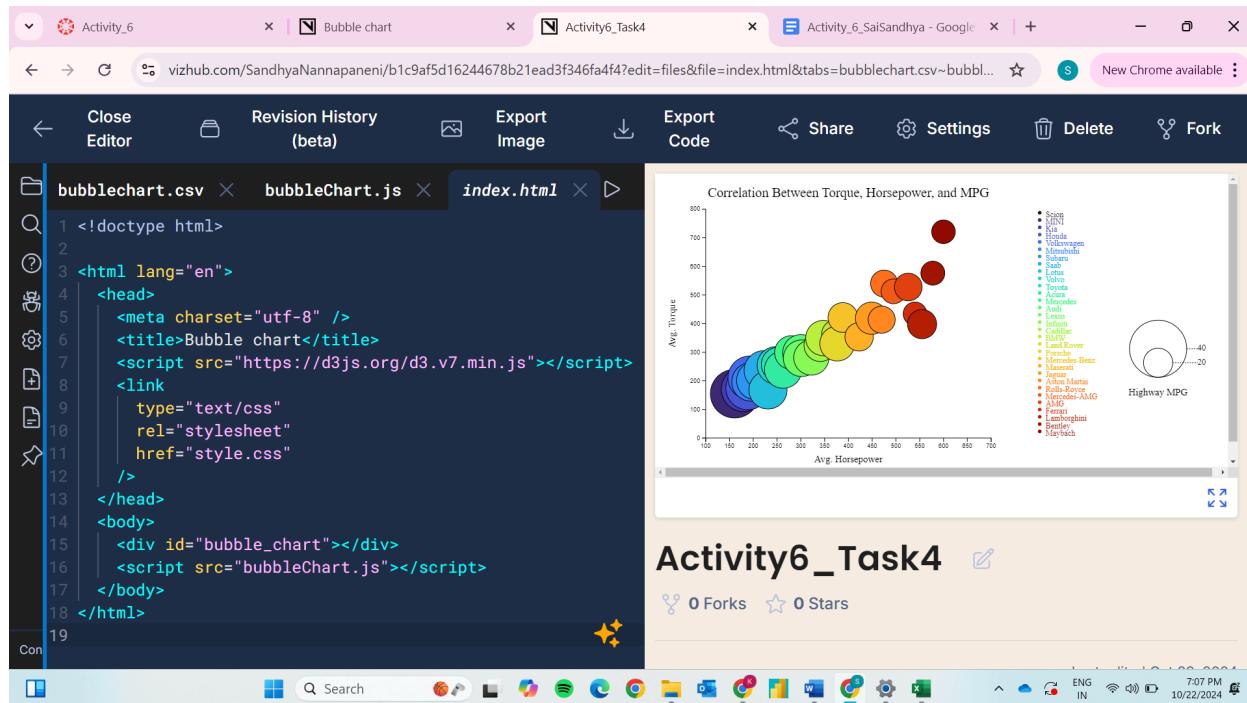
The screenshot shows a web browser window with multiple tabs open. The active tab is titled 'VizHub Search Results' and displays search results for the query 'hello+v'. The results are sorted by 'Most forked'. The top result is 'Hello VizHub' with 6.7K forks, created by Curran Kelleher on Nov 10, 2023. The second result is 'Hello HTML' with 3K forks, created by Curran Kelleher on Jan 04, 2024. The third result is 'Smiley Face Part V' with 164 forks, created by Curran Kelleher on Feb 13, 2020. The browser interface includes a navigation bar with back, forward, and search buttons, and a status bar at the bottom showing system icons and the date/time.

Project Name	Forks	Creator	Last Updated
Hello VizHub	6.7K Forks	Curran Kelleher	Nov 10, 2023
Hello HTML	3K Forks	Curran Kelleher	Jan 04, 2024
Smiley Face Part V	164 Forks	Curran Kelleher	Feb 13, 2020



-> Creating the bubble chart

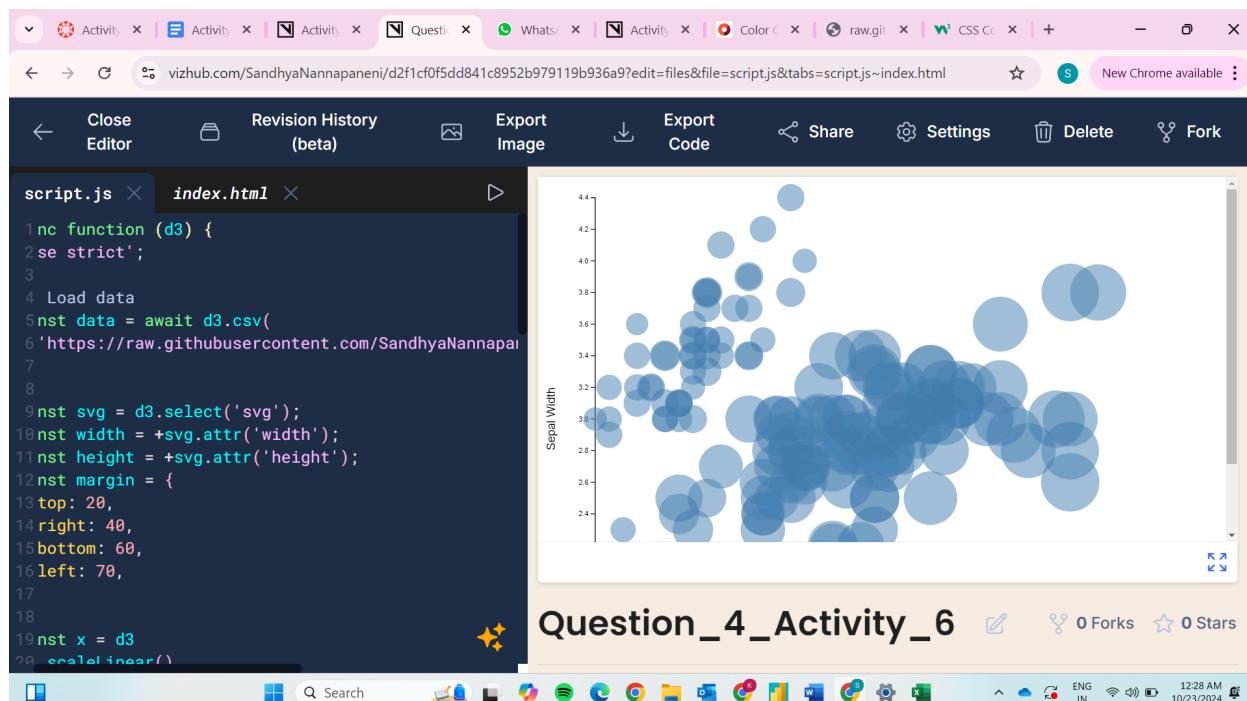
<https://vizhub.com/SandhyaNannapaneni/b1c9af5d16244678b21ead3f346fa4f4?edit=files&file=index.html&tabs=bubblechart.csv%7EbubbleChart.js%7Eindex.html>



Question - 4

->Creating the bubble chart and i am using the iris dataset file using the d3.js.

<https://vizhub.com/SandhyaNannapaneni/d2f1cf0f5dd841c8952b979119b936a9?edit=files&file=script.js&tabs=script.js%7Eindex.html>



-> This particular dataset is extensively used for purposes of data investigation, visualization, training and classification. The data set comprises 150 iris samples from three species - Setosa, Versicolor, and Virginica. Each sample has four numerical characteristics - sepal length, sepal width, petal length, and petal width - measured in centimeters. These attributes help to identify the criteria of sepal lengths and widths measuring up to 12 cm and 3cm and so on. The dataset is composed of 150 samples varying in the sepal and petal sizes of the species with sepal length, sepal width, petal length and petal width as the four features. And it has three classes or species of irises: the irises are classified as Setosa, Versicolor, and Virginica.

-> The bubbles will be placed on the chart in such a way that each percentage shows the extent to which the sepal length, petal length, and petal width values differ among the iris flowers. An ideal illustration would exhibit iris flowers that have wider petals by using larger significant circles, and iris flowers with narrower petals by using circles of smaller size. By observing the position of the bubbles along the X and Y charging axes, it is possible to determine if there are any affiliations or patterns in relation to the sepal, petal of the different species of iris. This graph would help in understanding statistical distributions among sepal length, petal length, and petal width combinations and moreover, within the iris flower types. However, since we are considering Iris dataset, these three functional variables out of four interrelated ones might be informatively construed in many another way, we expect that there is something misleading or insufficient information, and thus, we need to look into these data fully and come up with a comprehensive result.