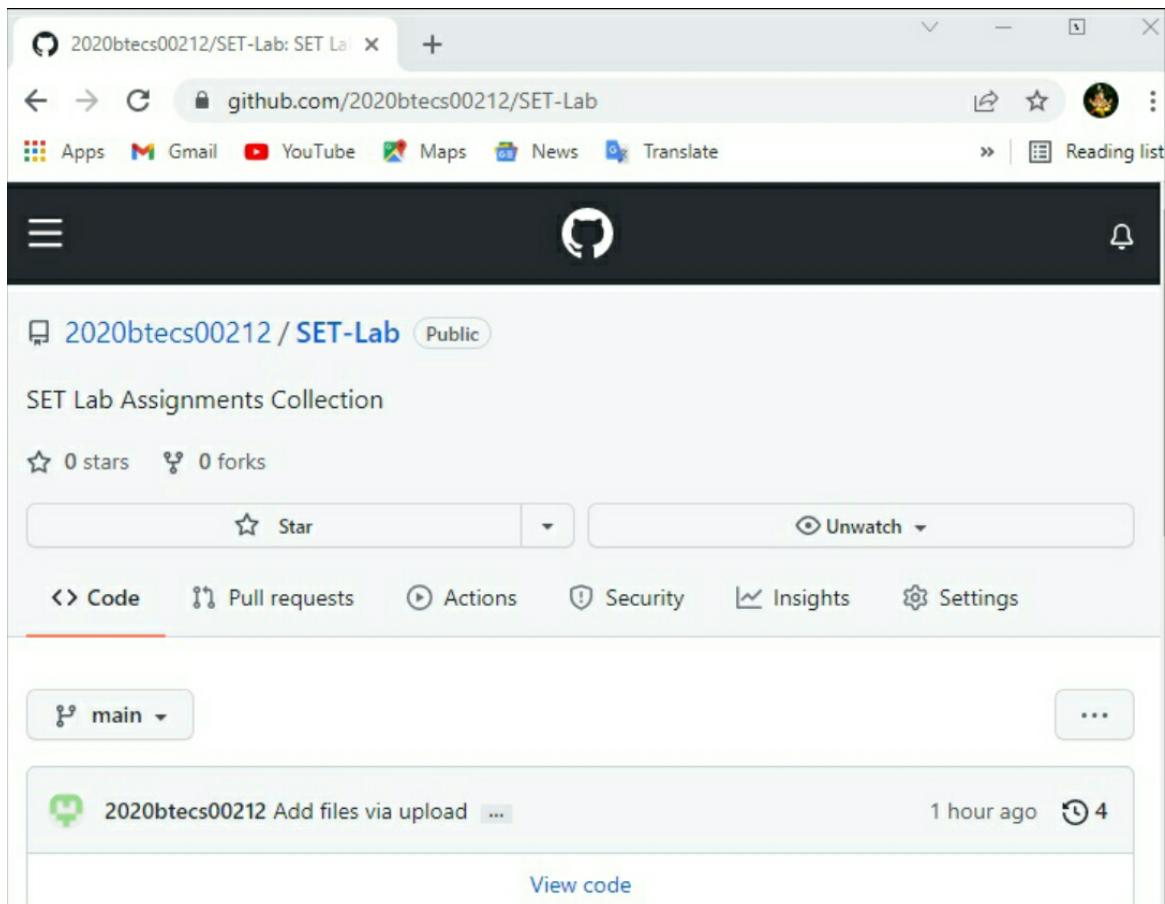


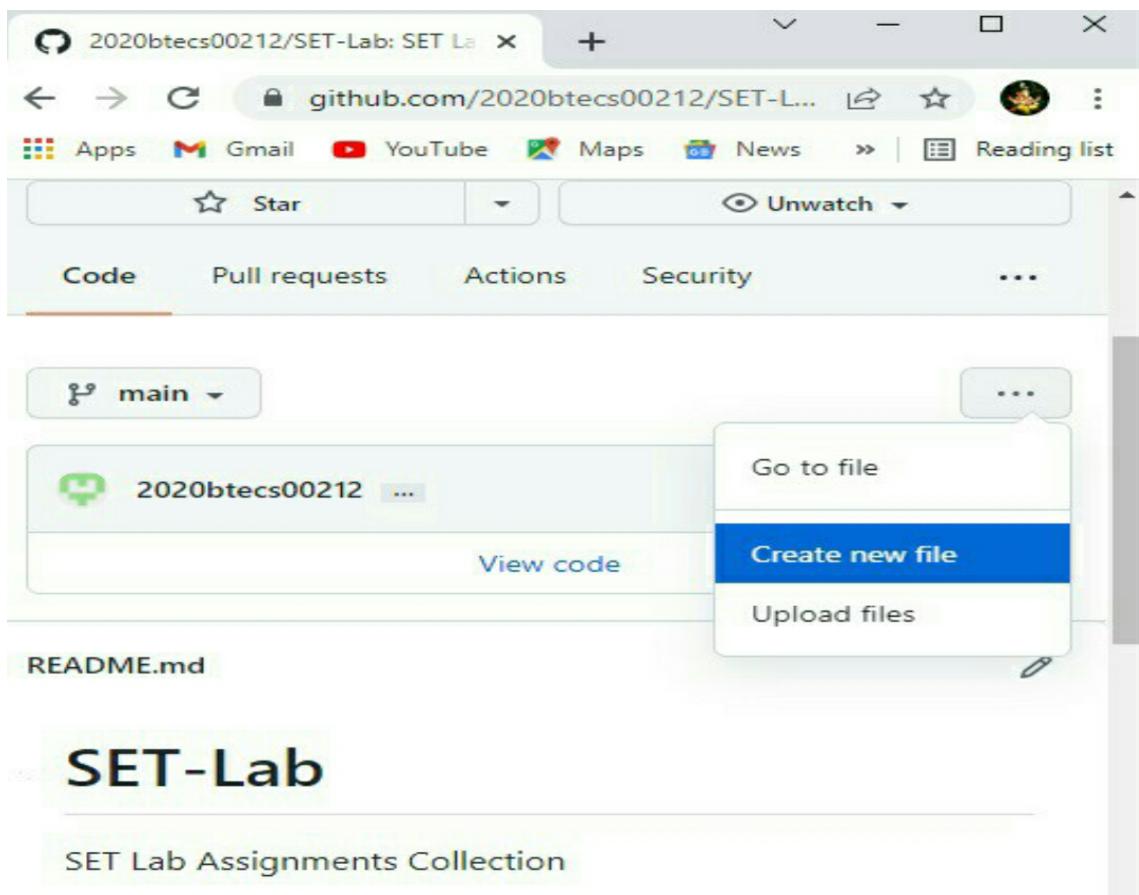
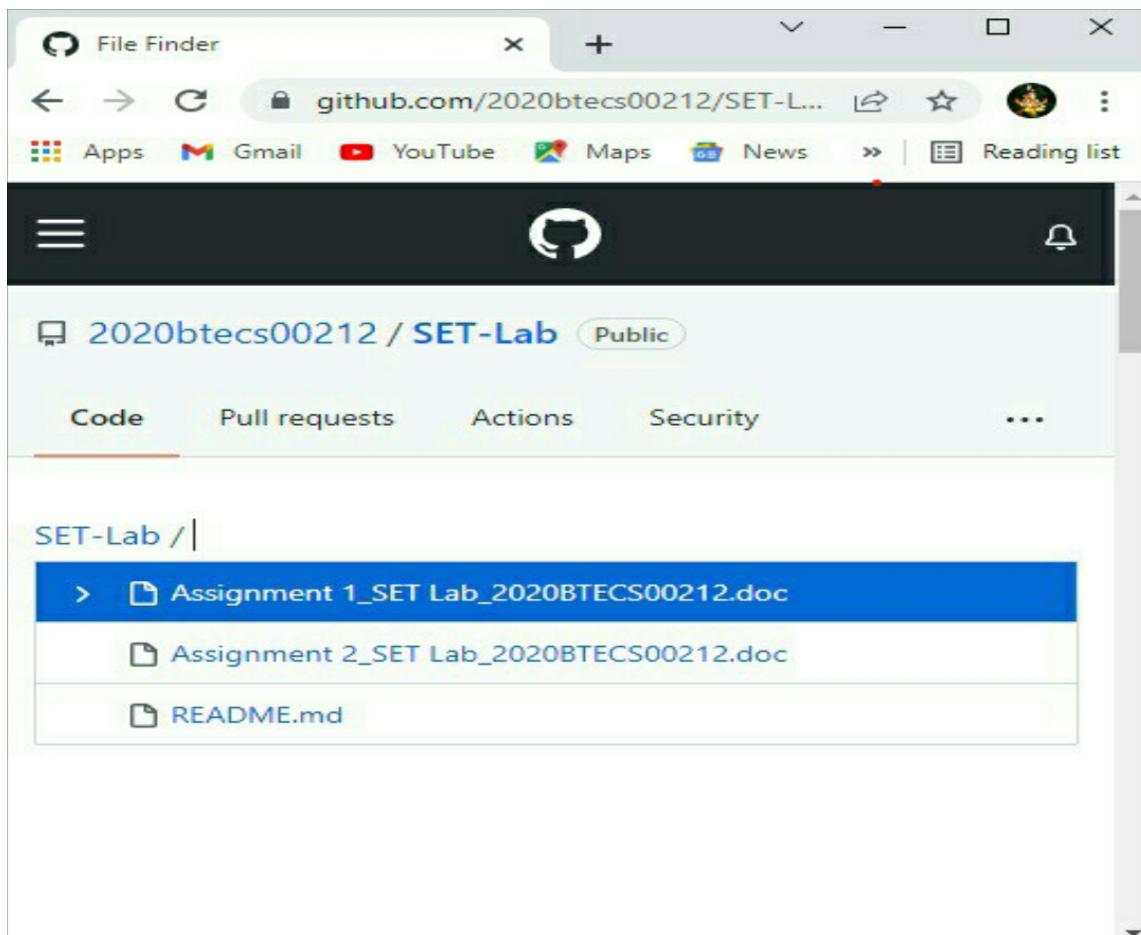
**PRN : 2020BTECS00212**  
**Software Engineering Tools Lab**  
**Assignment No-3**  
**Date : 23/02/2022**

**Q 1. Create a repository on GitHub named SET Lab and add files into it (you can add implementation files of previous assignment) perform below operations on it. (Add screenshot as an answer to every question)**

1. Perform commit on added files
2. Perform update to the existing files (show history)
3. Create another branch
4. Create pull request
5. Perform merging of both branches
6. Perform Fork operation

**Answer :**





Options

github.com/2020btecs00212/SET-L...

Apps Gmail YouTube Maps News Reading list

Control how and when users are prompted to update their branches if there are new changes available in the base branch.

Always suggest updating pull request branches ✓  
Whenever there are new changes available in the base branch, present an "update branch" option in the pull request.

You can allow setting pull requests to merge automatically once all required reviews and status checks have passed.

Allow auto-merge ✓  
Waits for merge requirements to be met and then merges automatically.  
[Learn more](#)

After pull requests are merged, you can have head branches deleted automatically.

Automatically delete head branches  
Deleted branches will still be able to be restored.

Commits · 2020btecs00212/SET-L...

github.com/2020btecs00212/SET-L...

Apps Gmail YouTube Maps News Reading list

2020btecs00212 / SET-Lab Public

Code Pull requests Actions Security ...

main

Commits on Feb 18, 2022

Add files via upload  
2020btecs00212 committed 1 hour ago

Add files via upload  
2020btecs00212 committed 1 hour ago

Add files via upload  
2020btecs00212 committed 1 hour ago

Branches · 2020btecs00212/SET- Lab

github.com/2020btecs00212/SET-Lab

Apps Gmail YouTube Maps News Reading list

2020btecs00212 / SET-Lab Public

Code Pull requests Actions Security ...

Overview Yours All branches

All branches

main Updated 1 hour ago by 2020btecs00212

Commits · 2020btecs00212/SET- Lab

github.com/2020btecs00212/SET-Lab

Apps Gmail YouTube Maps News Reading list

Code Pull requests Actions Security ...

main

Commits on Feb 18, 2022

Add files via upload  
2020btecs00212 committed 1 hour ago

Add files via upload  
2020btecs00212 committed 1 hour ago

Add files via upload  
2020btecs00212 committed 1 hour ago

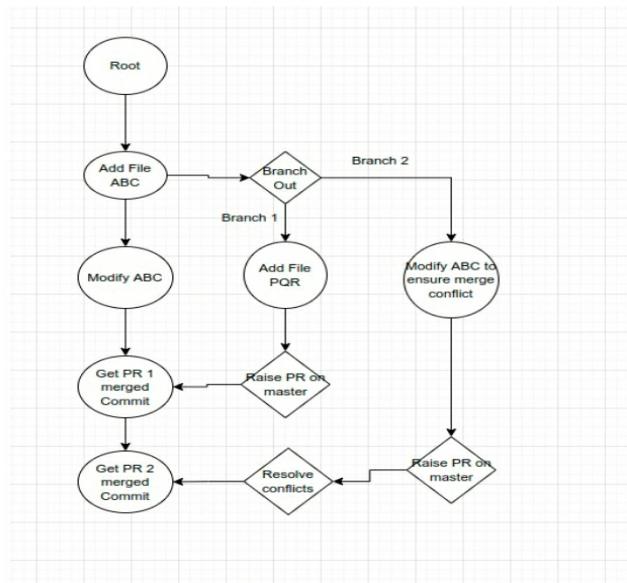
Initial commit  
2020btecs00212 committed 3 hours ago

Newer Older

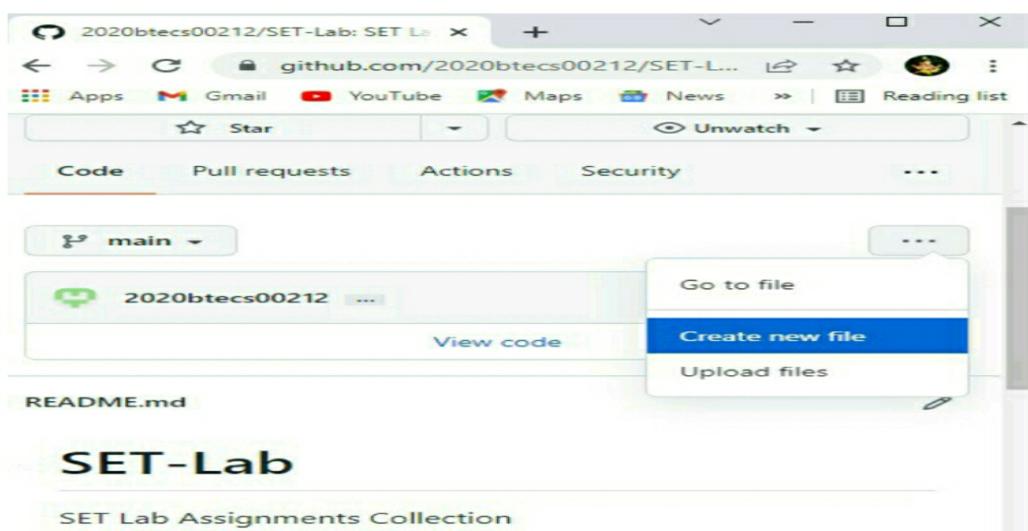
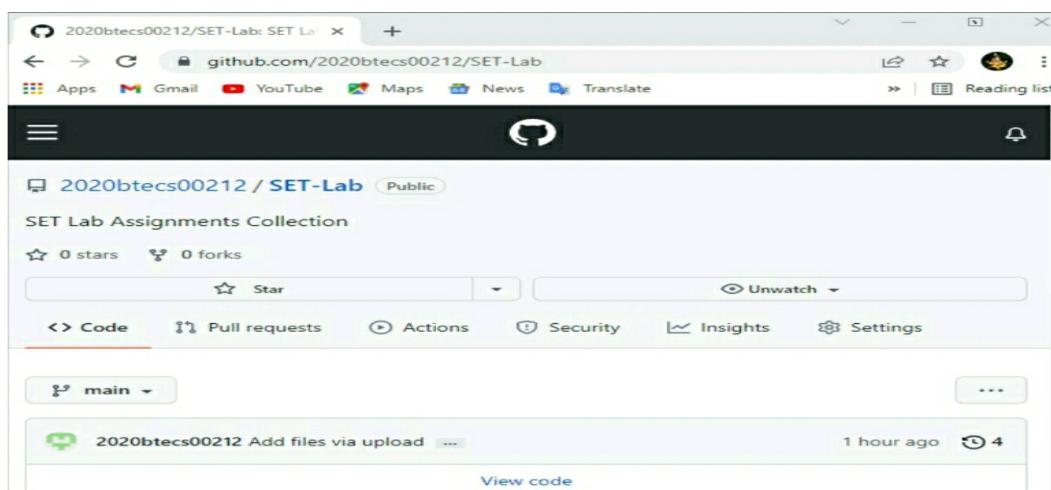
A screenshot of a web browser showing a GitHub repository page. The URL in the address bar is [github.com/2020btecs00212/SET-Lab](https://github.com/2020btecs00212/SET-Lab). The repository name is **2020btecs00212 / SET-Lab**, labeled as **Public**. The main navigation tabs are **Code**, **Pull requests**, **Actions**, **Security**, and **...**. Below the tabs, the heading **Compare changes** is displayed. A note says: "Compare changes across branches, commits, tags, and more below. If you need to, you can also compare across forks." There are dropdown menus for "base: main" and "compare: main". A yellow callout box contains the text: "Choose different branches or forks above to discuss and review changes. [Learn about pull requests](#)". A green button labeled "Create pull request" is visible.

A screenshot of a web browser showing a GitHub repository page. The URL in the address bar is [github.com/2020btecs00212/Spoon-Knife](https://github.com/2020btecs00212/Spoon-Knife). The repository name is **2020btecs00212 / Spoon-Knife**, labeled as **Public**. It is described as "forked from [octocat/Spoon-Knife](#)". A note states: "This repo is for demonstration purposes only." Below this, it shows "0 stars" and "124k forks". The main navigation tabs are **Code**, **Pull requests**, **Actions**, **Projects**, **Wiki**, and **...**. A dropdown menu for the branch "main" is shown. A yellow callout box at the bottom says: "This branch is up to date with octocat:main." At the bottom right, there are buttons for "Contribute" and "Fetch upstream".

**Q 2.** For the diagram given below create a GitHub repository and perform operations given in the diagram. (Perform commit operations as given)(Add screenshots as an answer to this question)



**Answer :**



Control how and when users are prompted to update their branches if there are new changes available in the base branch.

**Always suggest updating pull request branches** ✓  
Whenever there are new changes available in the base branch, present an "update branch" option in the pull request.

You can allow setting pull requests to merge automatically once all required reviews and status checks have passed.

**Allow auto-merge** ✓  
Waits for merge requirements to be met and then merges automatically.  
[Learn more](#)

After pull requests are merged, you can have head branches deleted automatically.

**Automatically delete head branches**  
Deleted branches will still be able to be restored.

Commits · 2020btecs00212/SET-Lab

2020btecs00212 / SET-Lab Public

Code Pull requests Actions Security ...

main

Commits on Feb 18, 2022

- Add files via upload  
2020btecs00212 committed 1 hour ago
- Add files via upload  
2020btecs00212 committed 1 hour ago
- Add files via upload  
2020btecs00212 committed 1 hour ago

File Finder

github.com/2020btecs00212/SET-Lab

Apps Gmail YouTube Maps News Reading list

2020btecs00212 / SET-Lab Public

Code Pull requests Actions Security ...

SET-Lab / |

- > Assignment 1\_SET Lab\_2020BTECS00212.doc
- Assignment 2\_SET Lab\_2020BTECS00212.doc
- README.md

**Q 3. What is GitHub desktop? How to install GitHub on local machine? Install GitHub on your local machine and access repository created in question no 1 (add screenshots).**

**Answer :**

Que.3

→ • Github desktop:-

- It is an application that enables you to interact with the GitHub using a GUI instead of the Command line or a web browser.

• How to Install GitHub on local Machine:

↳ steps:-

- ① Open a Browser.
- ② Visit [desktop.github.com](https://desktop.github.com).
- ③ Click download for windows (64 bit).
- ④ When prompted, click Run.
- ⑤ Allow the installation to download & Install.



# Welcome to GitHub Desktop

GitHub Desktop is a seamless way to contribute to projects on GitHub and GitHub Enterprise. Sign in below to get started with your existing projects.

New to GitHub? [Create your free account.](#)

[Sign in to GitHub.com](#)

[Sign in to GitHub Enterprise](#)

[Skip this step](#)

By creating an account, you agree to the [Terms of Service](#). For more information about GitHub's privacy practices, see the [GitHub Privacy Statement](#).

GitHub Desktop sends usage metrics to improve the product and inform feature decisions. Read more about what metrics are sent and how we use them [here](#).



## Clone a repository

X

GitHub.com

GitHub Enterprise

URL

Repository URL or GitHub username and repository

( hubot/cool-repo )

Local path

C:\Users\prani\Documents\GitHub

[Choose...](#)

[Clone](#)

[Cancel](#)

2020btecs00212/SET-Lab: SET Lab

https://github.com/2020btecs00212/SET-Lab

Search or jump to... Pull requests Issues Marketplace Explore

2020btecs00212 / SET-Lab Public Pin Unwatch 1 Fork 0 Star 0

Code Pull requests Actions Security Insights Settings

main 1 branch 0 tags Go to file Add file Code

2020btecs00212 Add files via upload f052bb7 4 hours ago 4 commits

Assignment 1\_SET L... Add files via upload 4 hours ago

Assignment 2\_SET L... Add files via upload 4 hours ago

README.md Initial commit 5 hours ago

About

SET Lab Assignments Collection

Readme 0 stars 1 watching 0 forks

Releases

No releases published Create a new release

github.com/2020btecs00212/SET-Lab/blob/main/Assignment%201\_SET%20Lab\_2020BTECS00212.doc

Apps Gmail YouTube Maps News Translate PL3\_2019BTECS00... Welcome to Virtual... Resume Reading list

Search or jump to... Pull requests Issues Marketplace Explore

2020btecs00212 / SET-Lab Public Pin Unwatch 1 Fork 0 Star 0

Code Pull requests Actions Security Insights Settings

main SET-Lab / Assignment 1\_SET Lab\_2020BTECS00212.doc Go to file ...

2020btecs00212 Add files via upload Latest commit f052bb7 4 hours ago History

1 contributor

10.2 MB Download

View raw  
(Sorry about that, but we can't show files that are this big right now.)

#### Q 4. Differentiate in between GitHub, Git and GitLab.

Answer :

| Que.4. Difference between GitHub, Git & GitLab:- |   |   |  |
|--|---|---|--|
| →  | Git   | GitHub  |  |
| ①  | Git is a Open source distributed version Control system, designed to handle everything from small to very large | It is a Cloud based git Repository hosting Service.                                       | GitLab is a web-based develops life cycle tool.  |
| ②  | It will manage & keep tracks your changes of your projects.   | You can manage & share your code with others & manage development teams as collaborators. | It provides a git repository manager provides wiki, issue tracking & CI / CD pipe line.          |
| ③  | less features than Git hub & Gitlab.  | less features than GitLab.  | Advanced features than Git & GitHub.   |
| ④  | less Authentifications than Github & Gitlab.  | less Authentifications than GitLab.   | Git Lab having the feature like adding & modifying people's permissions according to their role. |

**Q 5. Go to this <https://github.com/sidp1991/SETAssignment>**

**GitHub repository add your code file (question no 2 solved in assignment no 2) in this repository, then open file Student assignment updates.txt present in above repository and update your details such as Name and PRN and then perform commit( need to create pull request with appropriate comments). (Attach screenshots of this activity) :**

**Answer :**

You're making changes in a project you don't have write access to. We've created a fork of this project for you to commit your proposed changes to. Submitting a change will write it to a new branch in your fork, so you can send a pull request.

**SETAssignment /**  
Student assignment updates.txt  
in sidp1991:main

<> Edit file      Preview changes

```
1 Write your name : Pranita Rajendra Bhosale and PRN No :  
2 2020btecs00212  
3 Hello Updated
```

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also compare across forks.

base repository: sidp1991/SETAssignment    base: main  
head repository: 2020btecs00212/SETAssignment    compare: patch-2

Able to merge. These branches can be automatically merged.

The screenshot shows a web browser window with three tabs open. The active tab is a GitHub pull request page for a repository named 'sidp1991/SETAssignment'. The URL in the address bar is <https://github.com/sidp1991/SETAssignment/pull/5>. The pull request has 3 commits and 1 file changed. A comment from user '2020btecs00212' is visible, stating 'No description provided.' and linking to a file named 'Update Student assignment updates.txt'.

The screenshot shows a GitHub repository page for '2020btecs00212/SET-Lab'. The repository is public and contains 1 branch ('main'), 0 tags, and 4 commits. The latest commit is 'f052bb7' made 4 hours ago. The repository has 0 stars, 1 watching, and 0 forks. The README.md file is present. The repository is described as 'SET Lab Assignments Collection'.

The screenshot shows a GitHub file page for 'Assignment 1\_SET Lab\_2020BTECS00212.doc' located in the 'main' branch of the 'SET-Lab' repository. The file was uploaded by '2020btecs00212' via upload. It has 1 contributor. The file size is 10.2 MB. A note at the bottom states: '(Sorry about that, but we can't show files that are this big right now.)'

Welcome To Colaboratory - Colab | Copy of Welcome To Colaboratory | Google Search | My Drive - Google Drive | Untitled1.ipynb - Colaboratory

```

File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text
Q [3] from google.colab import drive
C < [4] drive.mount('/content/drive')
        Mounted at /content/drive
D [5] import pandas as pd
        import matplotlib.pyplot as plt
        import seaborn as sns;sns.set()
        import numpy as np
L 1
C [6] data = pd.read_csv('/content/drive/MyDrive/Untitled/lab/energydata_complete.csv')
D [7] data.head()

```

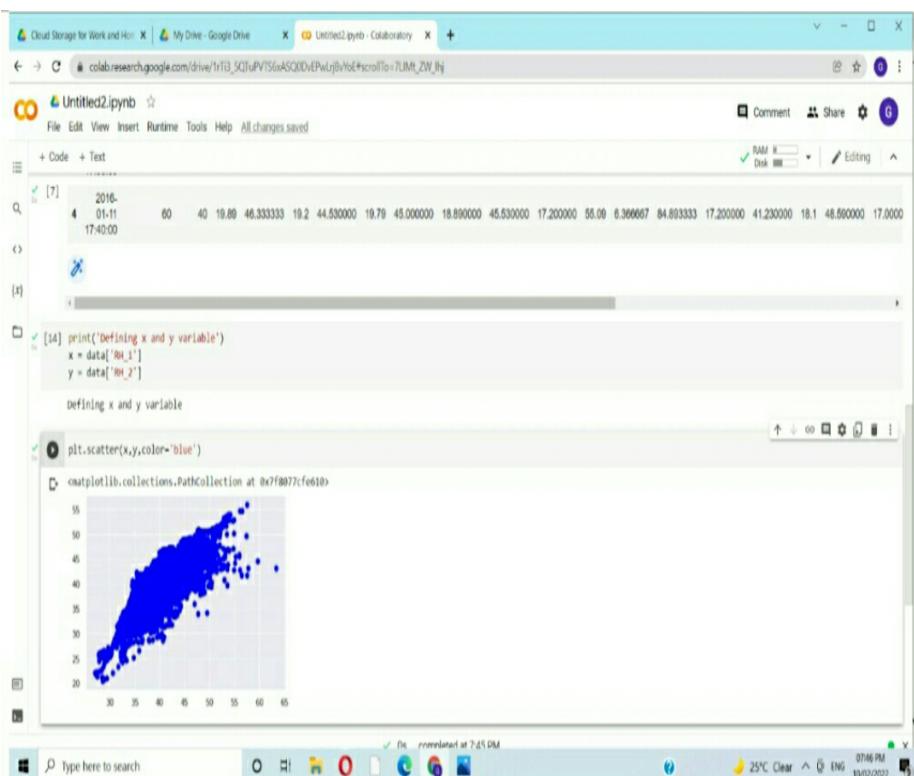
|   | date                | Appliances | lights | T_1   | RH_1      | T_2  | RH_2      | T_3   | RH_3      | T_4       | RH_4      | T_5       | RH_5  | T_6      | RH_6      | T_7       | RH_7      | T_8  | RH_8      |         |
|---|---------------------|------------|--------|-------|-----------|------|-----------|-------|-----------|-----------|-----------|-----------|-------|----------|-----------|-----------|-----------|------|-----------|---------|
| 0 | 2016-01-11 17:00:00 | 60         | 30     | 19.89 | 47.500007 | 19.2 | 44.720000 | 19.79 | 44.730000 | 19.000000 | 45.960007 | 17.166667 | 55.20 | 7.026667 | 84.250007 | 17.200000 | 41.620007 | 18.2 | 48.900000 | 17.0333 |
| 1 | 2016-01-11 17:10:00 | 60         | 30     | 19.89 | 46.693333 | 19.2 | 44.722500 | 19.79 | 44.780000 | 19.000000 | 45.992500 | 17.166667 | 55.20 | 6.833333 | 84.063333 | 17.200000 | 41.560000 | 18.2 | 48.863333 | 17.0066 |
| 2 | 2016-01-11 17:20:00 | 50         | 30     | 19.89 | 46.300000 | 19.2 | 44.626667 | 19.79 | 44.933333 | 19.826667 | 45.890000 | 17.166667 | 55.09 | 6.560000 | 83.156667 | 17.200000 | 41.433333 | 18.2 | 48.730000 | 17.0000 |

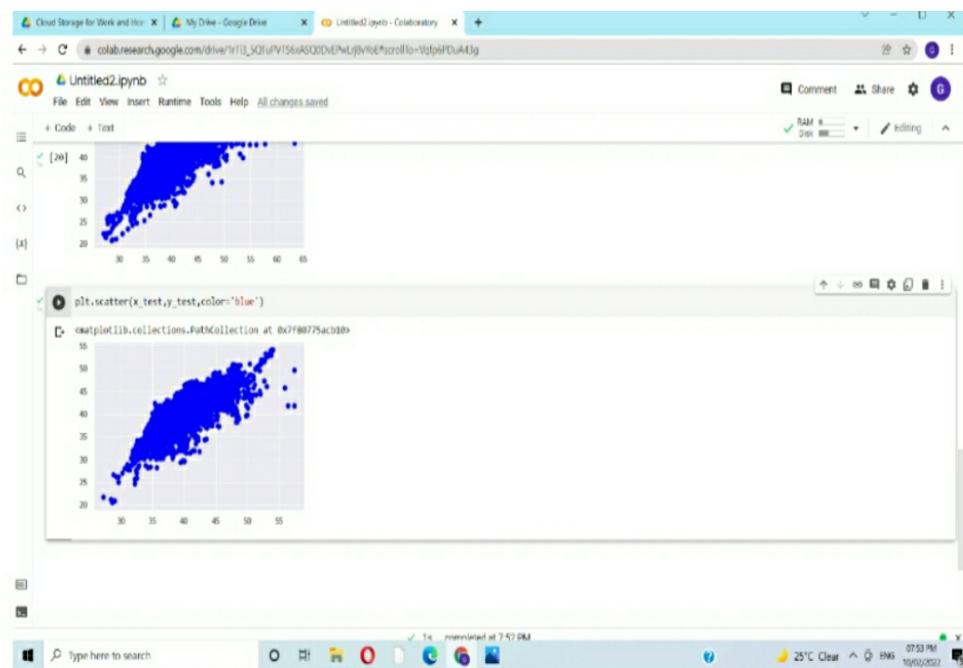
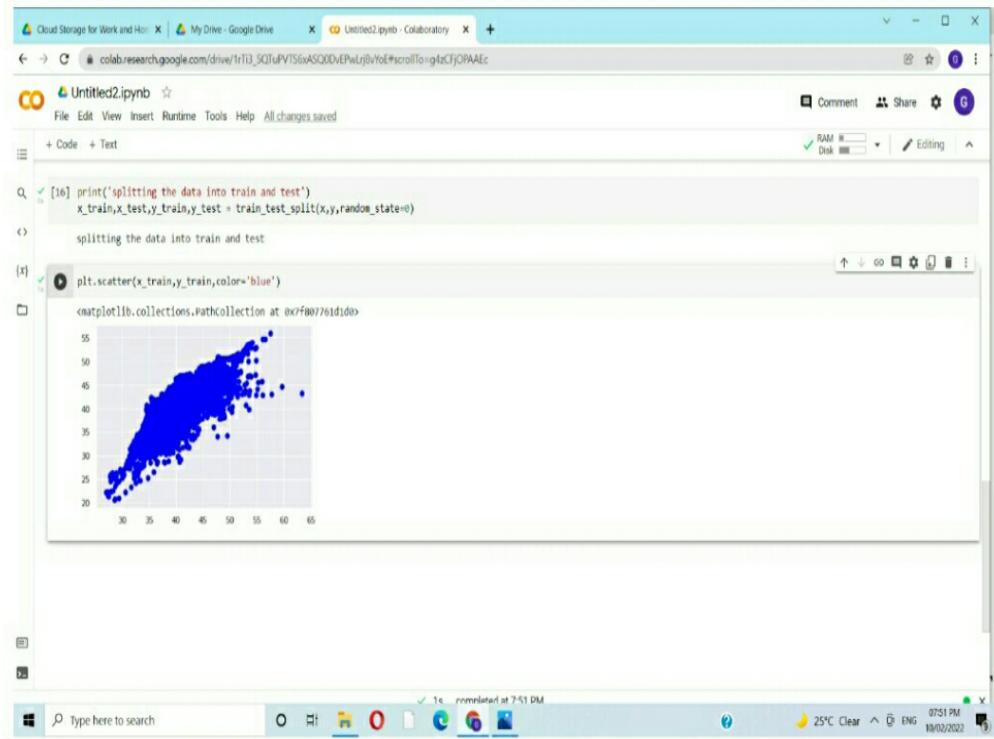
Welcome To Colaboratory - Colab | Copy of Welcome To Colaboratory | Google Search | My Drive - Google Drive | Untitled1.ipynb - Colaboratory

```

File Edit View Insert Runtime Tools Help All changes saved
+ Code + Text
Q [8] 17:00:00
C < [9] 2016-01-11 17:10:00
D [10] 2016-01-11 17:20:00
E [11] 2016-01-11 17:30:00
F [12] 2016-01-11 17:40:00

```





GitHub Link : <https://github.com/2020btecs00212/SET-Lab>

.....END.....