## Lab Task Week 12

## **Objective:**

- Conditional Filter
- Sorting
- Group
- Data Visualization

Note: You need to download the files from BBLearn.

- Lab Task 12.ipynb and
- Marks.xlsx

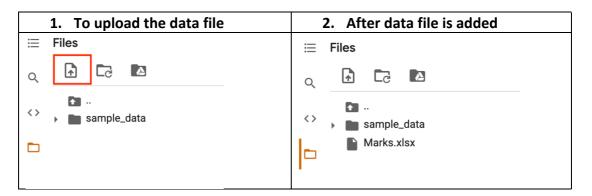
## Lab Task - 10

- 1. Open your google chrome browser
- 2. Go to the website <a href="https://colab.research.google.com/">https://colab.research.google.com/</a>
- 3. Press the Sign in Button on top right and sign in to your google account.
- 4. Select upload notebook from the File menu and drag/drop the Lab\_Task\_12.ipynb file from your computer.
- 5. Click on the files option from the tool menu to add the data file.



**Note:** Wait till the runtime is connected to see the options of file.

Click on the upload option and choose the marks.xlsx to upload it with the project.
 Note: Uploaded files will get deleted when this runtime is recycled. You need to reupload it if runtime is recycled.



- 7. From the Runtime select Run All to run all the commands from Week 09 and Week 10 labs.
- 8. Complete the below Lab Tasks and type the code in given space.

```
Display the student who got more than 69 in Final Marks
   grades[grades['Final Marks'] > 69]
   Display the student who got Final Marks between 80 to 89
    grades[(grades['Final Marks'] >= 80) & (grades['Final Marks'] <=</pre>
    89)1
   Display the student who study in ENG division and got FWA less than 71
   grades[(grades['Division'] == 'ENG' )& (grades['FWA'] < 71)]</pre>
d.
  Display the student sort by Division
   grades.sort values('Division')
   Display the student sort by Division in ascending and Final Marks by descending
   grades.sort values(['Division','Final
   Marks'], ascending=[True, False])
   Display the number of students in each division
f.
    grades.groupby('Division')['ID'].count()
```

## **Data Visualization**

9. Download the notebook to your local computer.