

## 2 CÁCH ĐỂ CHẠY DỮ LIỆU ONLINE TỪ GOOGLE COLAB

### 1- Cách 1

Chỉ tải 1 file dữ liệu

Bước 1: Chạy 2 dòng lệnh sau

```
from google.colab import files
uploaded = files.upload()
```

Bước 2: Chọn file dữ liệu cần tải

Bước 3: Sử dụng theo ví dụ sau:

```
import pandas as pd
import io
df = pd.read_csv(io.BytesIO(uploaded['sample_grades.csv']))
df.head(10)
```

Kết quả:



The screenshot shows a Google Colab notebook titled "Pandas-TKUD.ipynb". The first code cell, executed 1 minute ago, contains the following code:

```
[1] from google.colab import files
    uploaded = files.upload()
```

The output of this cell shows a file upload dialog with "No file chosen" and a message: "Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable." Below this, it says "Saving sample\_grades.csv to sample\_grades.csv".

The second code cell, executed 1 giây ago, contains the following code:

```
[2] import pandas as pd
    import io
    df = pd.read_csv(io.BytesIO(uploaded['sample_grades.csv']))
    df.head(10)
```

The output of this cell is a table with the following data:

	Student ID	Gender	Project Phase 1	Project Phase 2	Mid-Semester Test	Final Exam	Grade
0	101	Male	18.25	15.5	94	61.0	PA
1	102	Female	17.75	30.0	79	62.0	PA
2	103	Male	0.00	0.0	78	15.0	NN

## 2- Cách 2- Sử dụng dữ liệu trong một folder đã tải lên Google drive

Bước 1: Tải dữ liệu lên google drive

Bước 2: Chạy 2 dòng lệnh

```
from google.colab import drive
drive.mount('/content/drive')
```

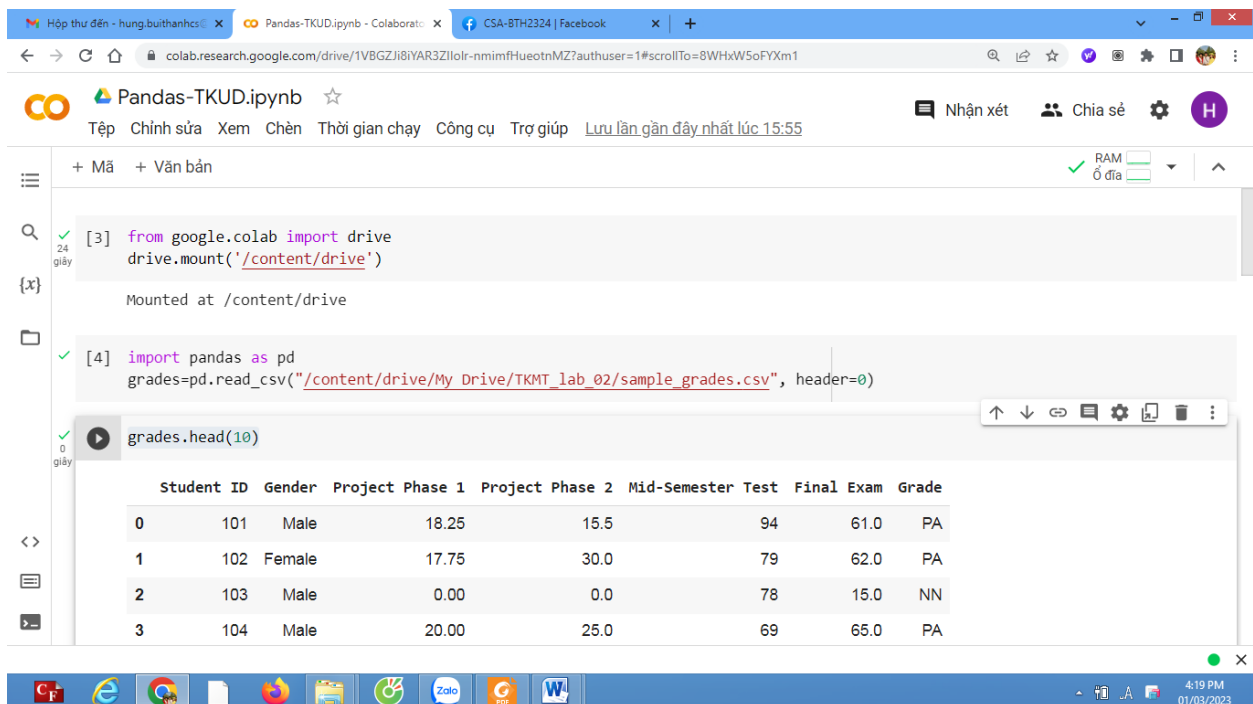
Bước 3: Cấp quyền cho google drive

Bước 4: Sử dụng

```
import pandas as pd
grades=pd.read_csv("/content/drive/My Drive/TKMT_lab_02/sample_grades.csv", header=0)
grades.head(10)
```

Chú ý đường dẫn ("/content/drive/My Drive/) là đường dẫn mặc định, thư mục của bạn ở đâu bạn thêm vào sau đường dẫn đó

Kết quả



The screenshot shows a Google Colab notebook interface. The code cell [3] contains the following code:

```
from google.colab import drive
drive.mount('/content/drive')
```

The output for cell [3] is "Mounted at /content/drive".

The code cell [4] contains the following code:

```
import pandas as pd
grades=pd.read_csv("/content/drive/My Drive/TKMT_lab_02/sample_grades.csv", header=0)
grades.head(10)
```

The output for cell [4] is a table with the following data:

	Student ID	Gender	Project Phase 1	Project Phase 2	Mid-Semester Test	Final Exam	Grade
0	101	Male	18.25	15.5	94	61.0	PA
1	102	Female	17.75	30.0	79	62.0	PA
2	103	Male	0.00	0.0	78	15.0	NN
3	104	Male	20.00	25.0	69	65.0	PA