Google Colab

19CSE304

15CSE431



Dept. of CSE, Amrita Vishwa Vidyapeethan

What Colab Offers Yo

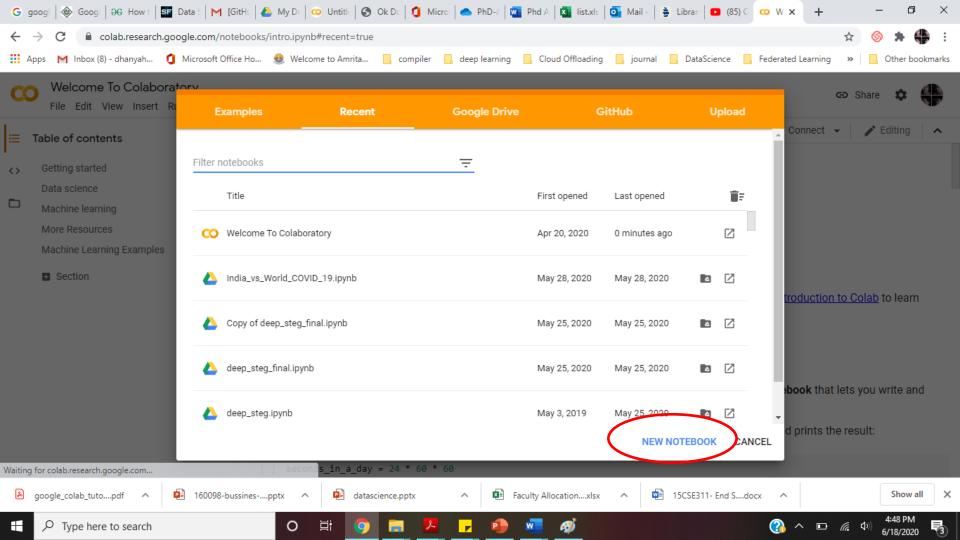


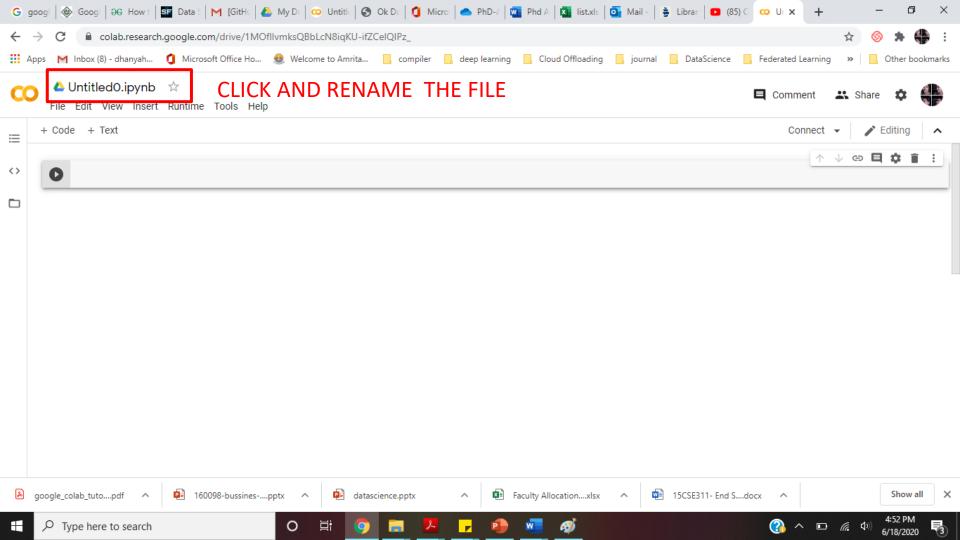
- Write and execute code in Python
- Document your code that supports mathematical equations
- Create/Upload/Share notebooks
- Import/Save notebooks from/to Google Drive
- Import/Publish notebooks from GitHub
- Import external datasets e.g. from Kaggle
- Integrate PyTorch, TensorFlow, Keras, OpenCV
- Free Cloud service with free GPU

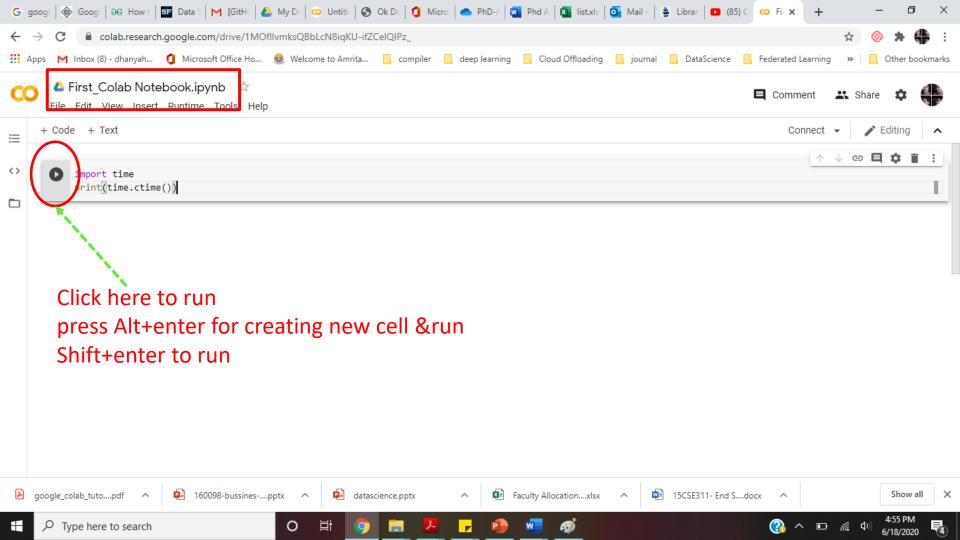
Your First Colab Notebac

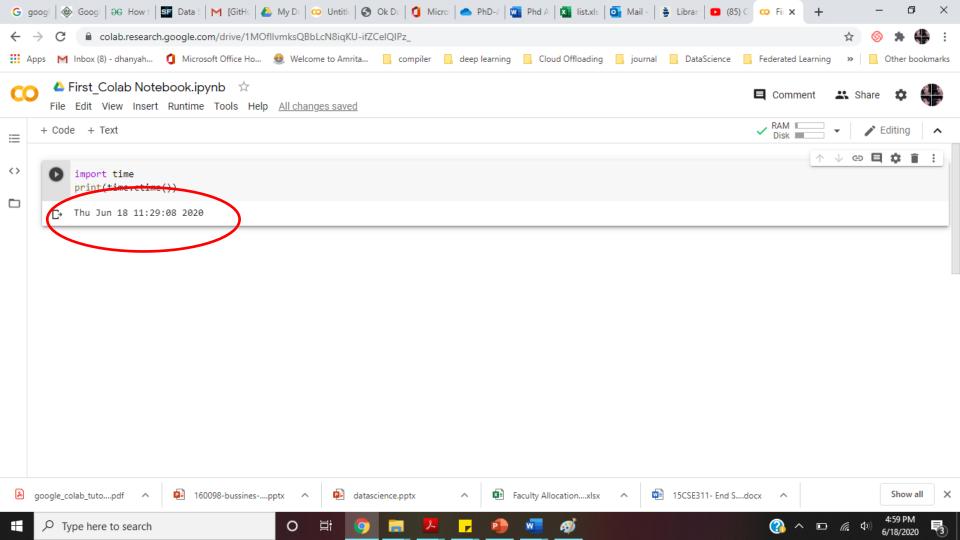


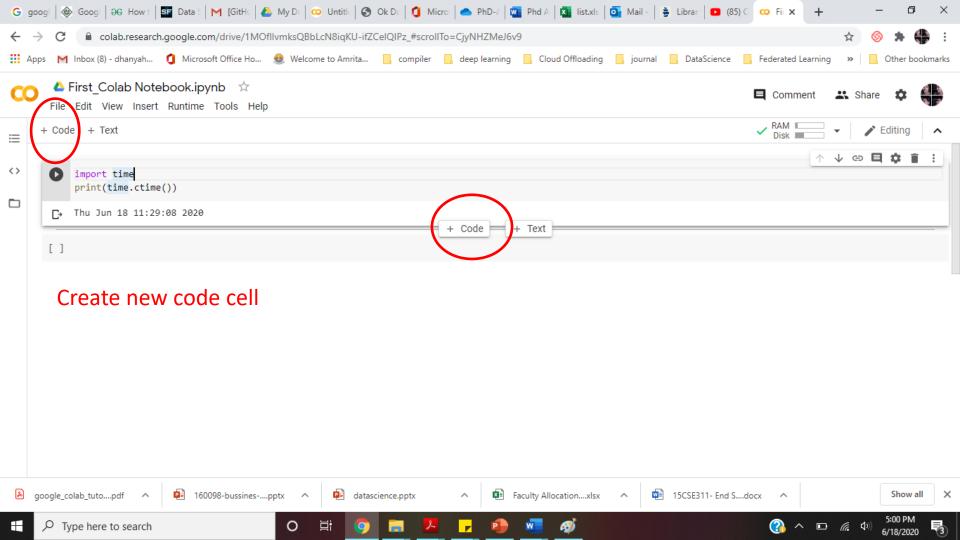
Type URL in your browser: https://colab.research.google.com

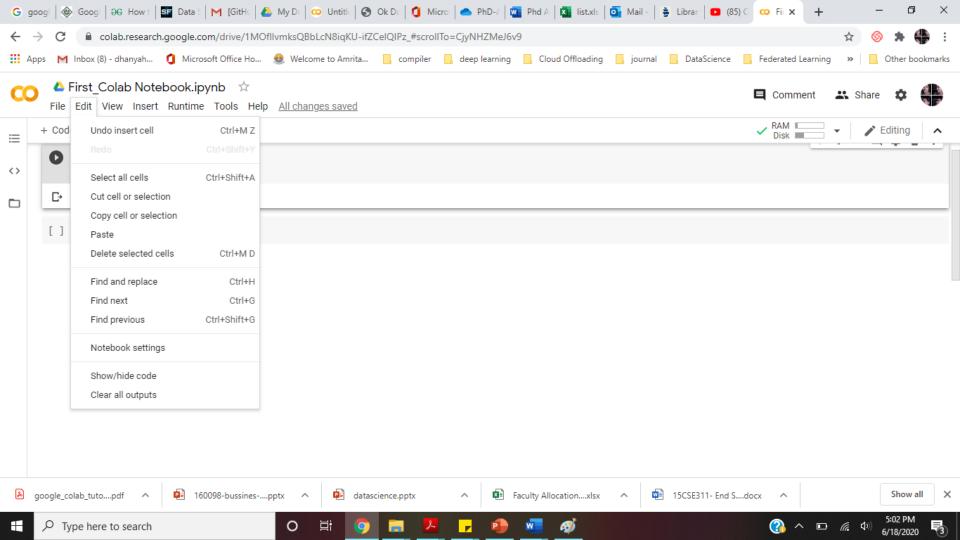


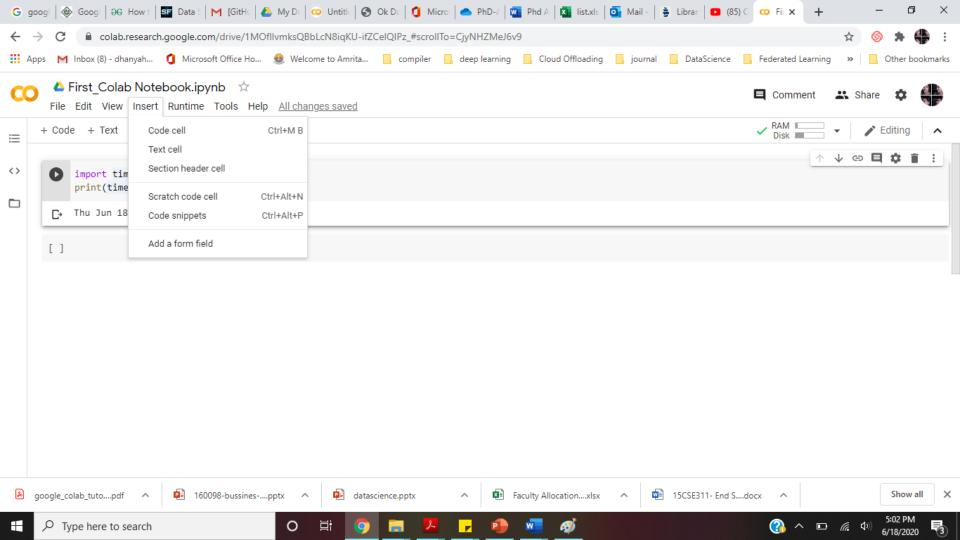


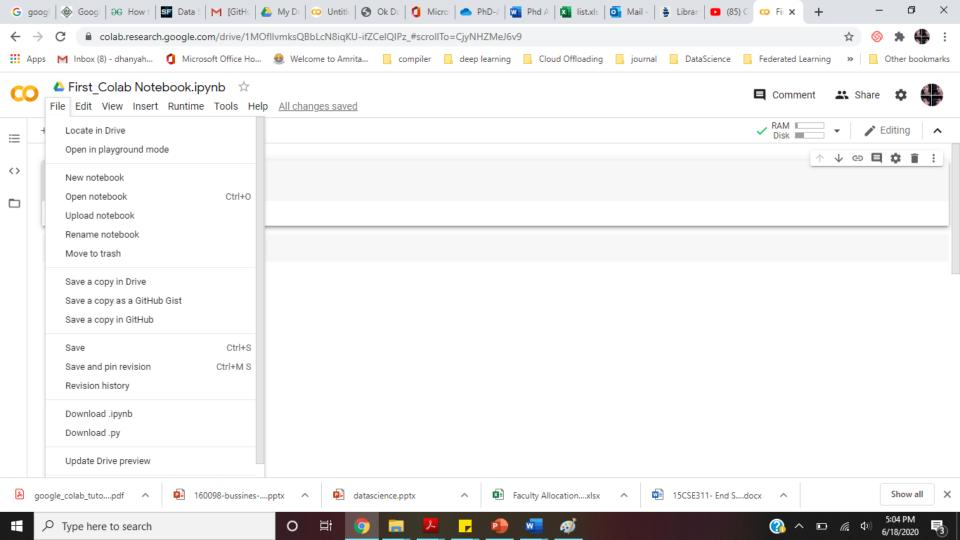


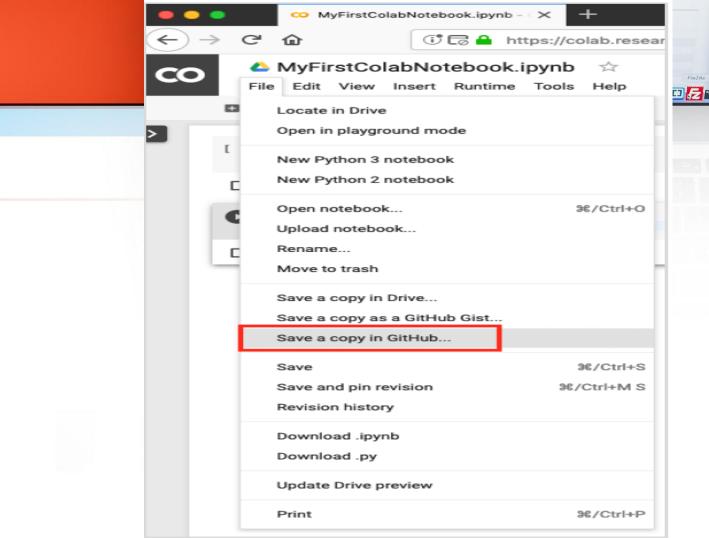








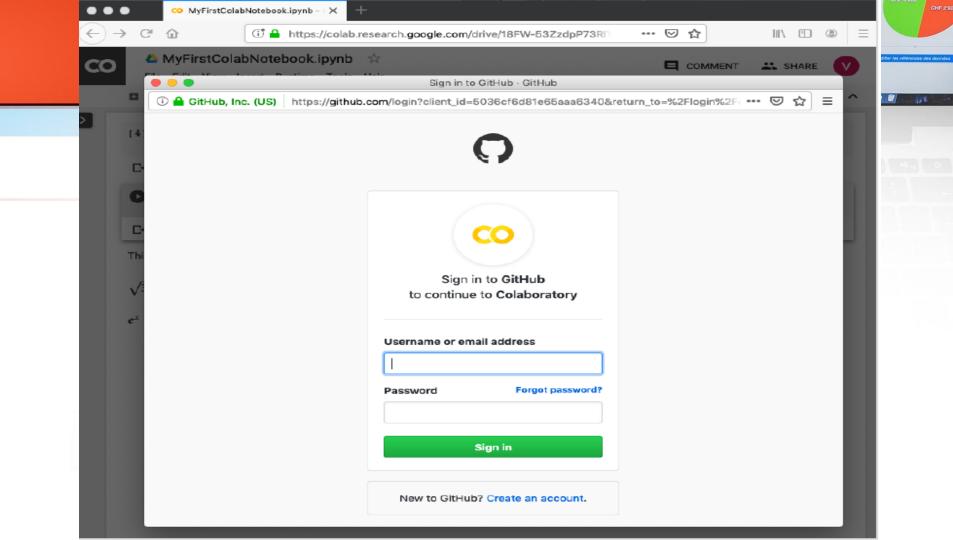


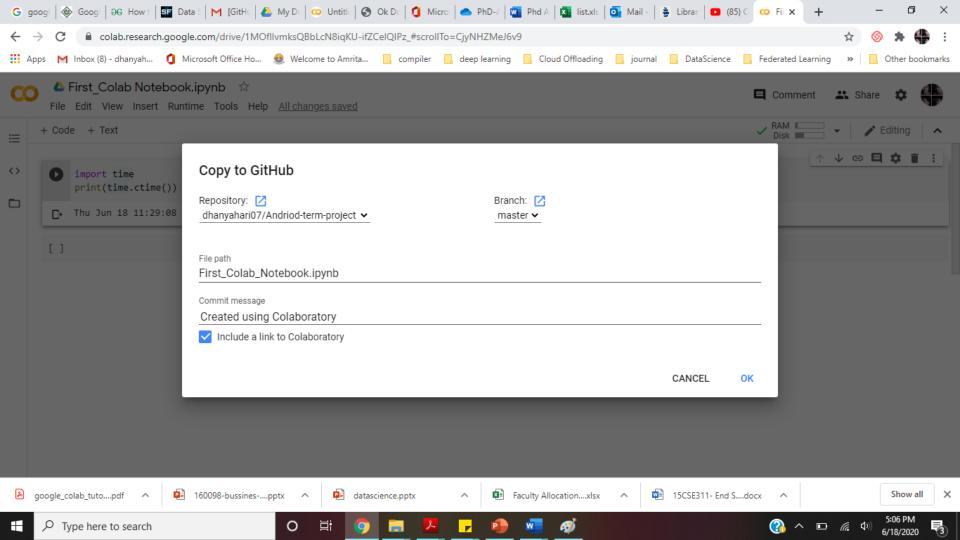


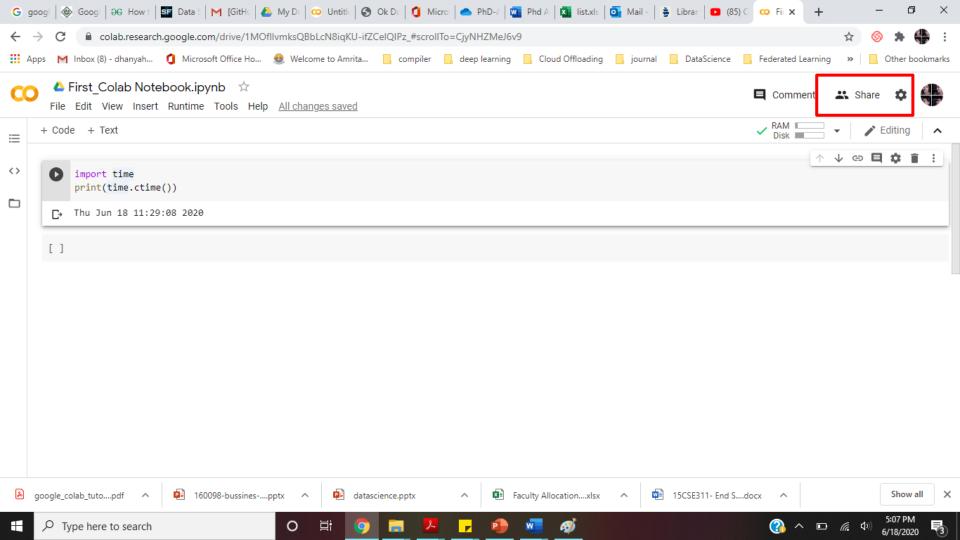


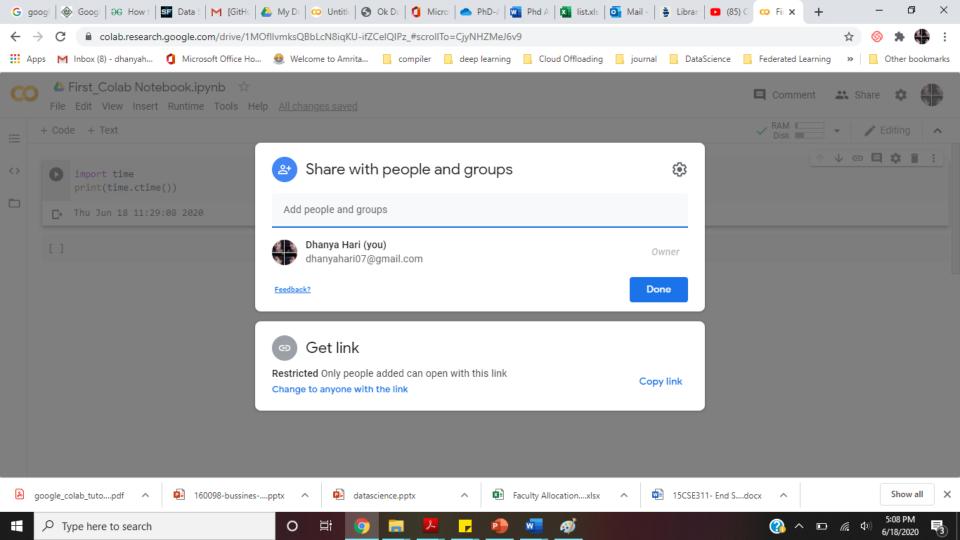
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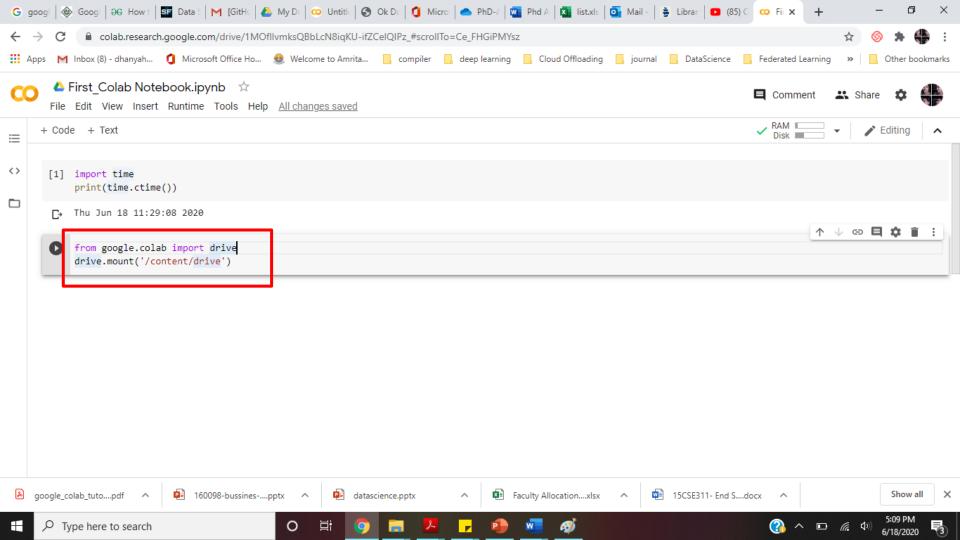
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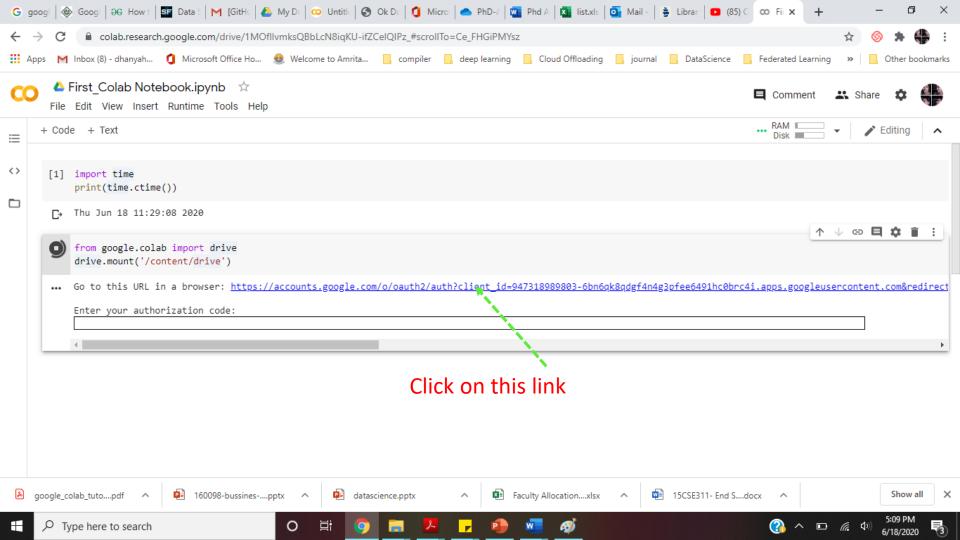


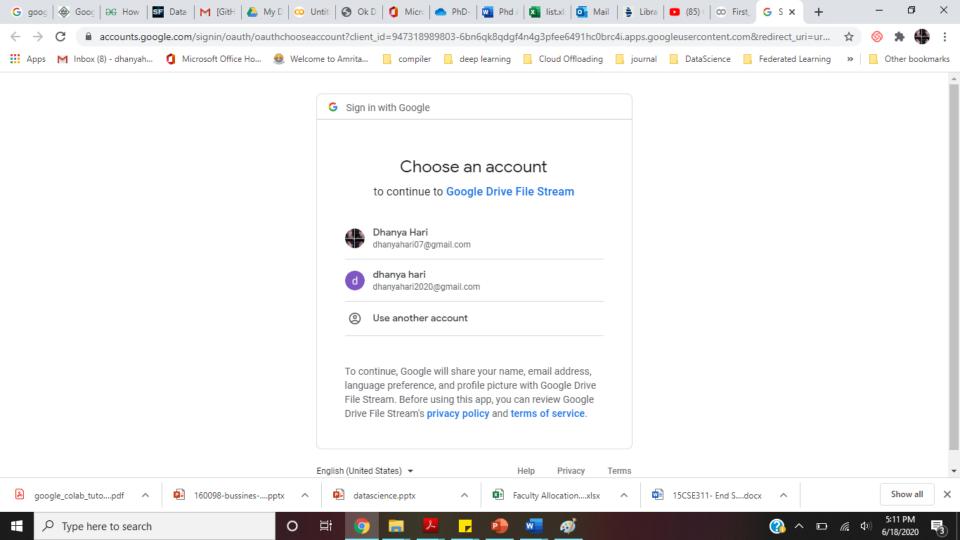


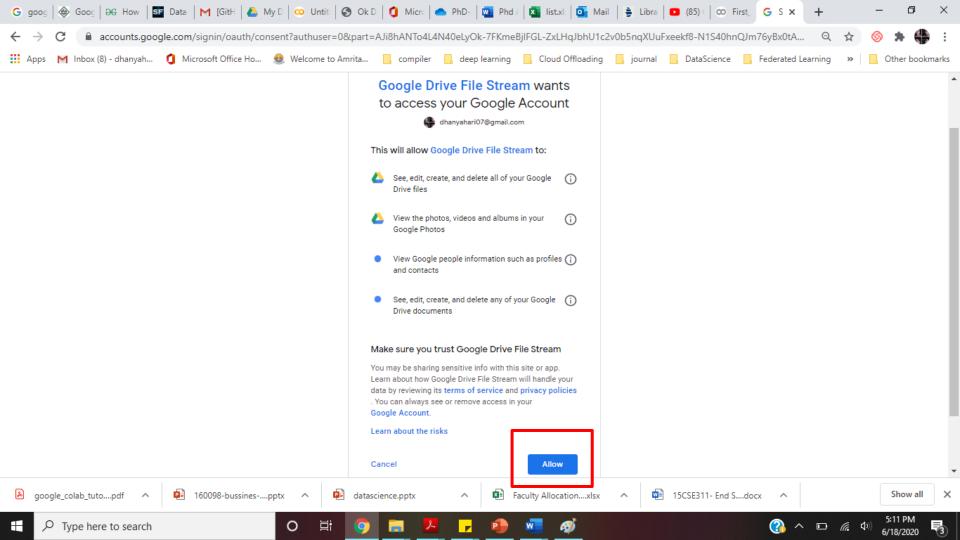


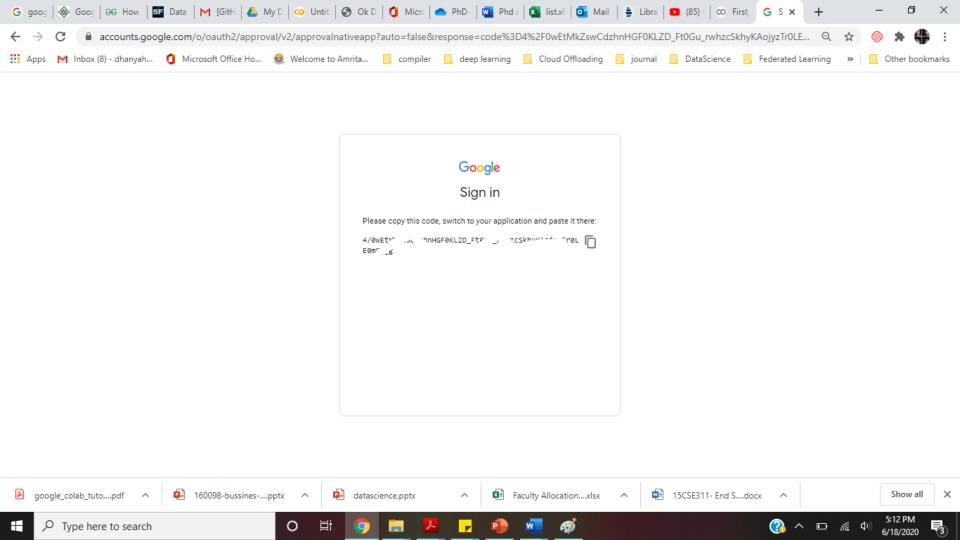


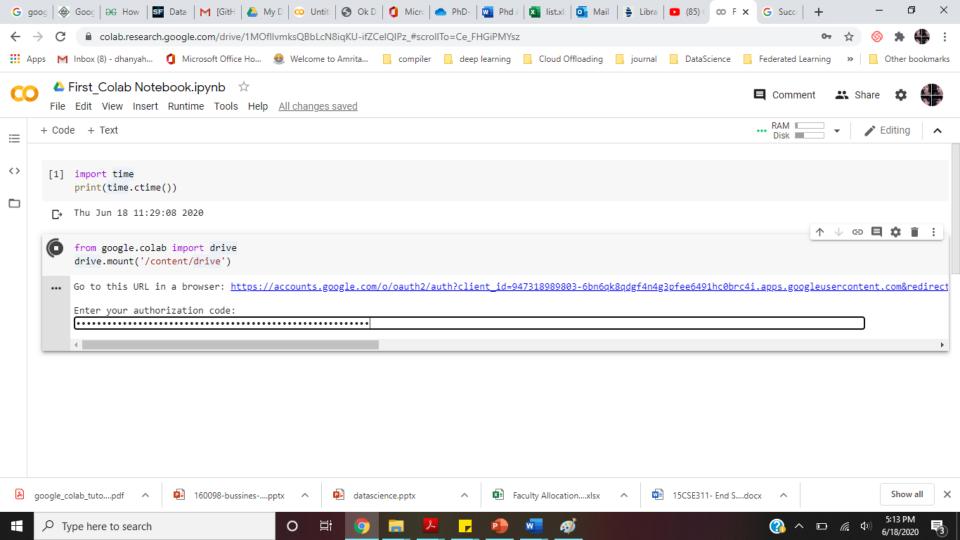














- File location
- '/content/drive/My Drive/......'

Python Data Science

- Data Mining.
 - 1. Scrapy
 - 2.Beautifulsoup
- Data Visualization
 - 1. Matplotlib
 - 2. Seaborn
 - 3. Bokeh
 - 4. Plotly
 - 5. pydot

- Data Processing and Modeling
 - 1. NumPy
 - 2. scipy
 - 3. pandas
 - 4. Keras
 - 5. SciKit-Learn
 - 6. Pytorch
 - 7. TensorFlow
 - 8. XGBoost



TRY OUT THESE EXERCISES

1. The simple Interest is ???

```
DATE DUMÉE | DISTANCE | AS LUTE | REMARQUES | REMARQUES | DISTANCE | CEMPS-MAILQ| | REMARQUES | DISTANCE | CEMPS-MAILQ| | REMARQUES | DISTANCE | CEMPS-MAILQ| | DISTANCE | DISTANCE | CEMPS-MAILQ| | DISTANCE | CEMPS-MAILQ| | DISTANCE | DISTANCE | CEMPS-MAILQ| | DISTANCE | DISTANCE | CEMPS-MAILQ| | DISTANCE | DISTANCE
```

```
def simple_interest(p,t,r):
    print('The principal is', p)
    print('The time period is', t)
    print('The rate of interest is',r)
    si = (p * t * r)/100
    print('The Simple Interest is', si)
    return si
simple_interest(8, 6, 8)
```

2. Predict the output



```
start = 11
end = 25
for val in range(start, end + 1):
    if val > 1:
        for n in range(2, val//2 + 2):
            if (val % n) == 0:
                break
            else:
                if n == val//2 + 1:
                     print(val)
```

3. Predict the output is in put is 11 months of the pu

```
def fun1(num):
    if num > 1:
        fun1(num // 2)
    print(num % 2, end='')
number = int(input("Enter any number: "))
fun1(number)
```



```
def fun2(x, y):
  if x > y:
       greater = x
   else:
       greater = y
  while(True):
       if((greater % x == 0) and (greater % y == 0)):
           val = greater
           break
       greater += 1
   return val
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
print(fun2(num1, num2))
```

5. Predict the output if the helloo.....How r u?????

```
DATE DUNE DISTANCE REMARQUES IS

IN DUNE DISTANCE REMARQUES IS
```

```
punctuation = ''''!()-[]{};:'"\,<>./?@#$%^&*_~'''
my_str = input("Enter a string: ")
str1 = ""
for char in my_str:
    if char not in punctuation:
        str1 = str1 + char

print(str1)
```

Quiz Link



https://forms.office.com/Pages/ResponsePage.aspx?id=o835AF4H5USqC6ujrd ZTn63NXi4eP7xHpYuejR M4qdURFhMWE9JTDhHTkc5OElUSDRWOVMyUTNPQ y4u