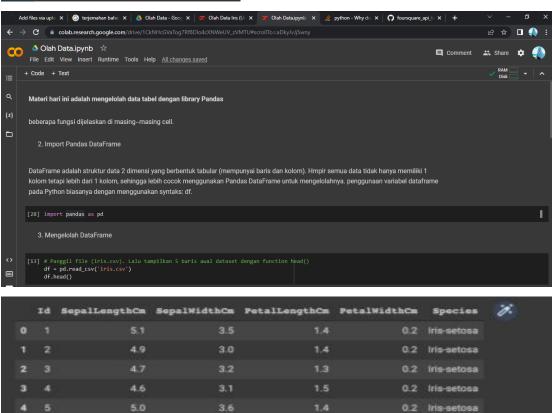
Nama: Nurmala

Nim : 20.01.013.069

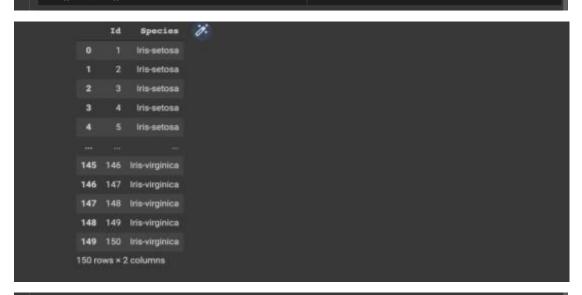
Tugas : Pemrograman Python

1. Pemrograman Python Olah Data





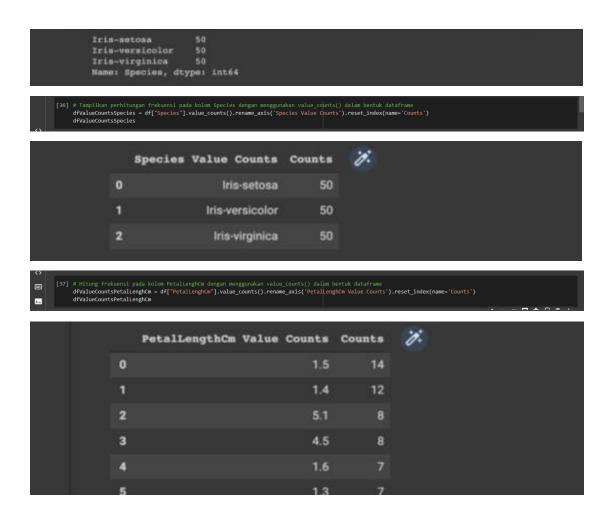
[19] # Tampilkan data untuk kolom "Id" dan kolom "Species" dalam bentuk dataframe dff[["Id","Species"]]



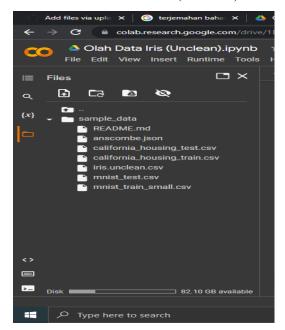
[20] # Tampilkan data baris indexs ke-0 (nol) sampai dengan index ke-9 (sembilan) df.iloc[:10]

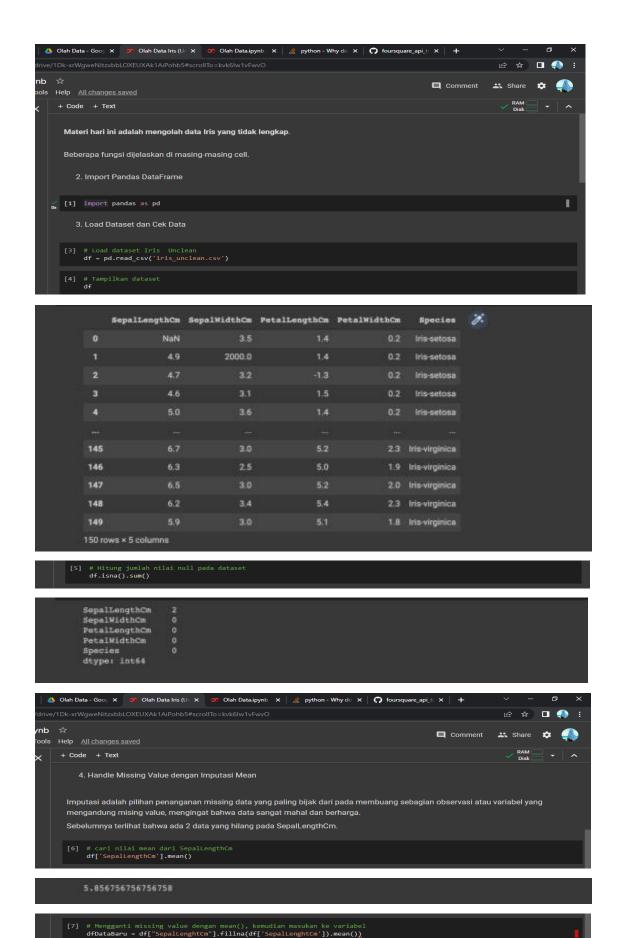
- 1	Iđ	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
		5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2		4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	iris-setosa
4		5.0	3.6	1.4	0.2	Iris-setosa
5	6	5.4	3.9	1.7	0.4	Iris-setosa
		4.6	3.4	1.4	0.3	Iris-setosa
7	8	5.0	3.4	1.5	0.2	Iris-setosa
8		4.4	2.9	1.4	0.2	Iris-setosa
9	10	4.9	3.1	1.5	0.1	Iris-setosa

Id Species 11 12 Iris-setosa 12 13 Iris-setosa 14 15 Iris-setosa 15 16 Iris-setosa [23] # Tampilkan data 8 baris pertama df.head(8) Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm Species 0.2 Iris-setosa 0.2 Iris-setosa 0.2 Iris-setosa 3 4.6 0.2 Iris-setosa 0.2 Iris-setosa 3.6 5 5.4 0.4 Iris-setosa 0.3 Iris-setosa 0.2 Iris-setosa [24] # Tampilkan data 3 baris terakhir
 df.tail(3) Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm Species 2.0 Iris-virginica 148 149 2.3 Iris-virginica 1.8 Iris-virginica [29] # Hitung nilai mean dari dataset df.mean() /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:2: FutureWarning: Dropping of 75.500000 5.843333 SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm 1.198667 dtype: float64



2. Olah Data Iris Dataset (Unclean)

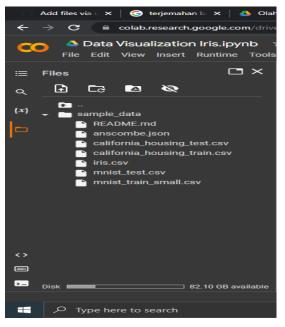


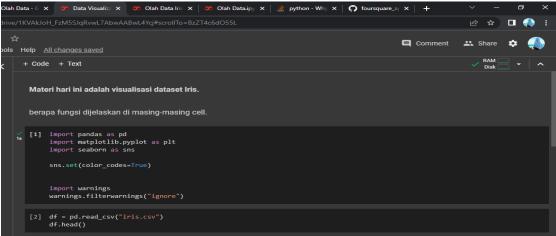


[8] # cek data dfDataBaru

```
4.900000
4.700000
             5.000000
            6.300000
6.500000
6.200000
5.900000
   Name: SepalLengthCm, Length: 150, dtype: float64
SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                       4.900000
                                              2000.0
                                                                                            0.2 Iris-setosa
                                                                                            0.2 Iris-setosa
                       4.700000
                       4.600000
                                                                                            0.2 Iris-setosa
                                                                                            0.2 Iris-setosa
                       5.000000
       145
                       6.700000
                                                                                            2.3 Iris-virginica
       146
                       6.300000
                                                                                            1.9 Iris-virginica
                                                                                            2.0 tris-virginica
                       6.500000
       148
                       6.200000
                                                                                            2.3 Iris-virginica
       149
                                                                                            1.8 Iris-virginica
      150 rows × 5 columns
   [10] # cek jumlah baris dan kolom
df2.info()
      <class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
# Column Non-Null Count Dtype
      0 SepalLengthCm 150 non-null
1 SepalWidthCm 150 non-null
2 PetalLengthCm 150 non-null
3 PetalWidthCm 150 non-null
4 Species 150 non-null
                                                          float64
                                                          float64
     3 Potation 150 non-mod
4 Species 150 non-mod
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
      SepalLengthCm
      SepalWidthCm
FetalLengthCm
      PetalWidthCm
     Species
dtype: int64
Nilai null sudah terisi semua
```

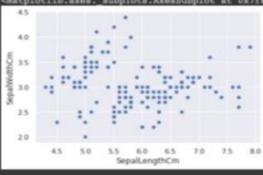
3. Data Visualization Iris



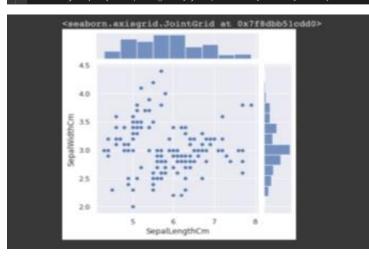


	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species	1.
0		5.1	3.5	1.4	0.2	Iris-setosa	
- 1		4.9	3.0	1.4	0.2	Iris-setosa	
2		4.7	3.2	1.3	0.2	Iris-setosa	
3	4	4.6	3.1	1.5	0.2	Iris-setosa	
4		5.0	3.6	1.4	0.2	Iris-setosa	

[3] # Membuat Scatter Plot dari fitur SepalLengthCm dan SepalWidthCm df.plot(Kind= "scatter", x="SepalLengthCm", y="SepalWidthCm") *c* argument looks like a single numeric RGB or RGBA sequence, which should be avoided a <matplotlib.axes_ subplots.AxesSubplot at 0x7f8db9c18910>



[4] # Atau dengan library Seaborn
sns.jointplot(x="SepalLengthCm", y="SepalWidthCm", data-df, size-5)



[5] # Salah satu informasi yang hilang dalam plot di atas adalah jenis tanaman (Species)
Gunakan Facetorid Seaborn untuk mewarnai sebaran Species
sns.Facetorid(df, hue="Species", palette= "husl", sizw=5) \(\)
__mmp(plt.scatter, "SepallengthCm", "SepalWidthCm") \\
.add_legend()

