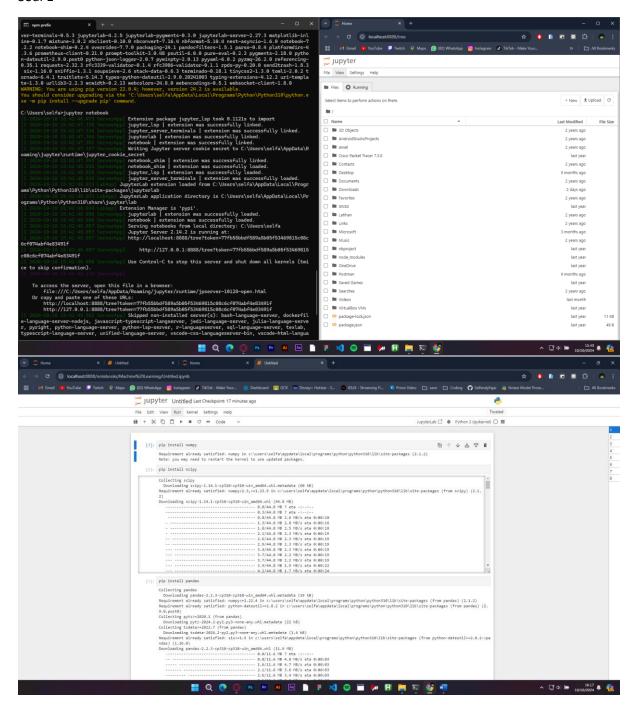
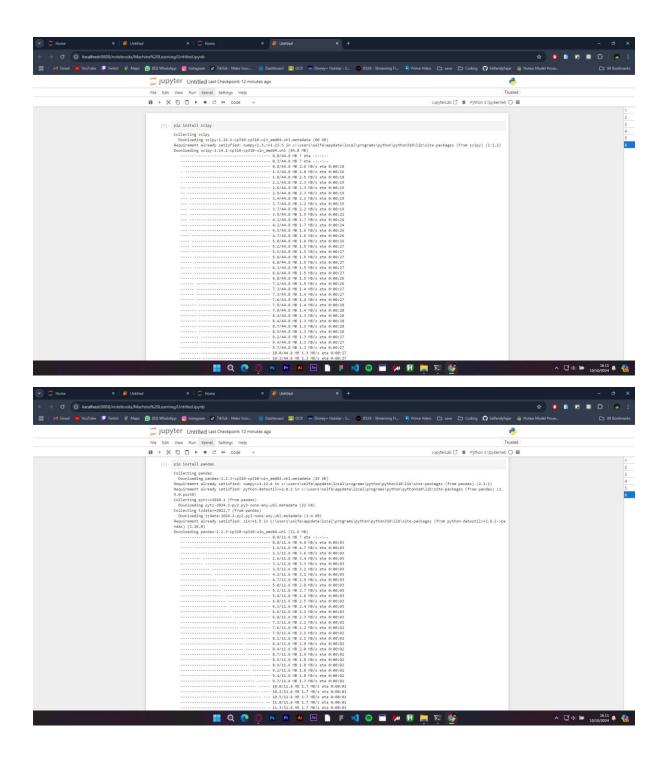
Nama: Selfandy Fajar Kautsara Rahutama

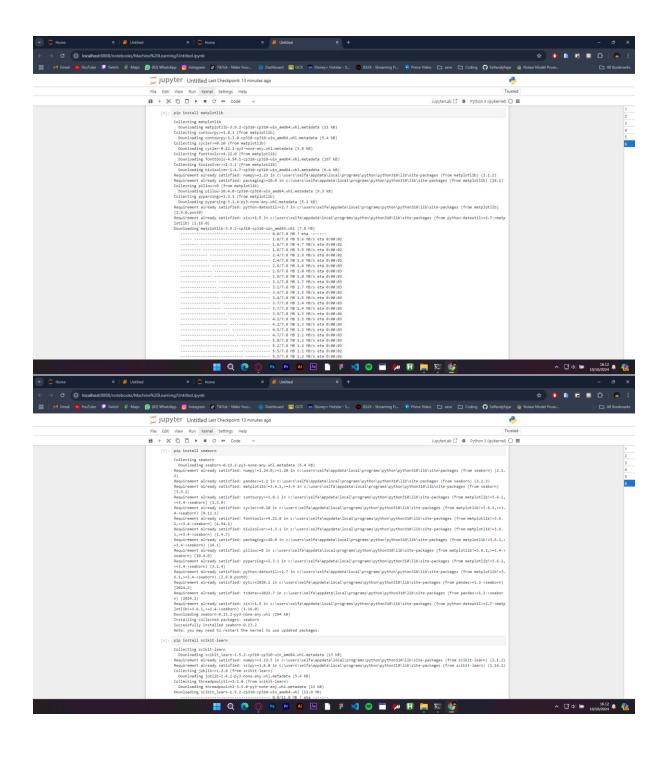
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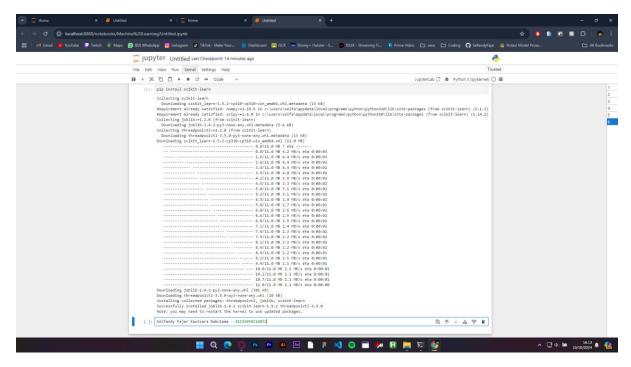
Kelas: A2

Matakuliah: Machine Learning

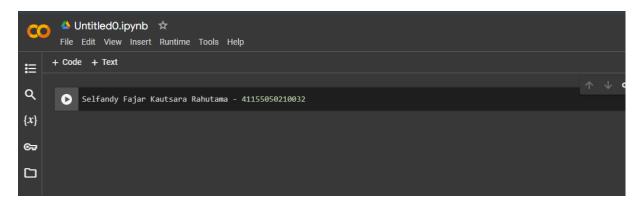


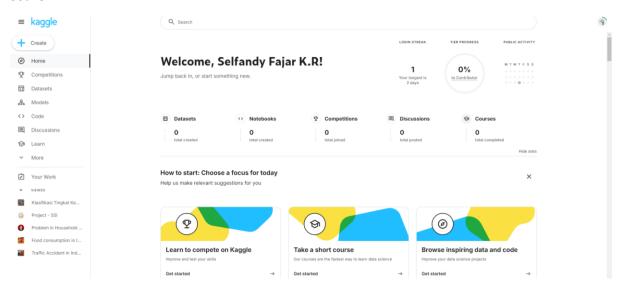




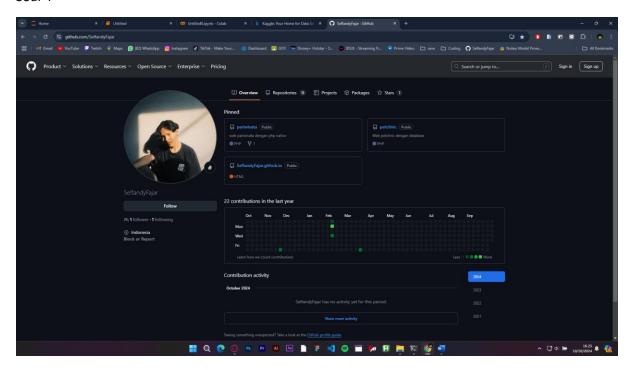


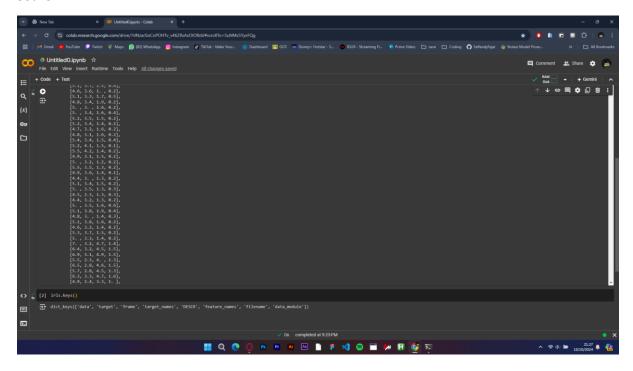
Soal 2

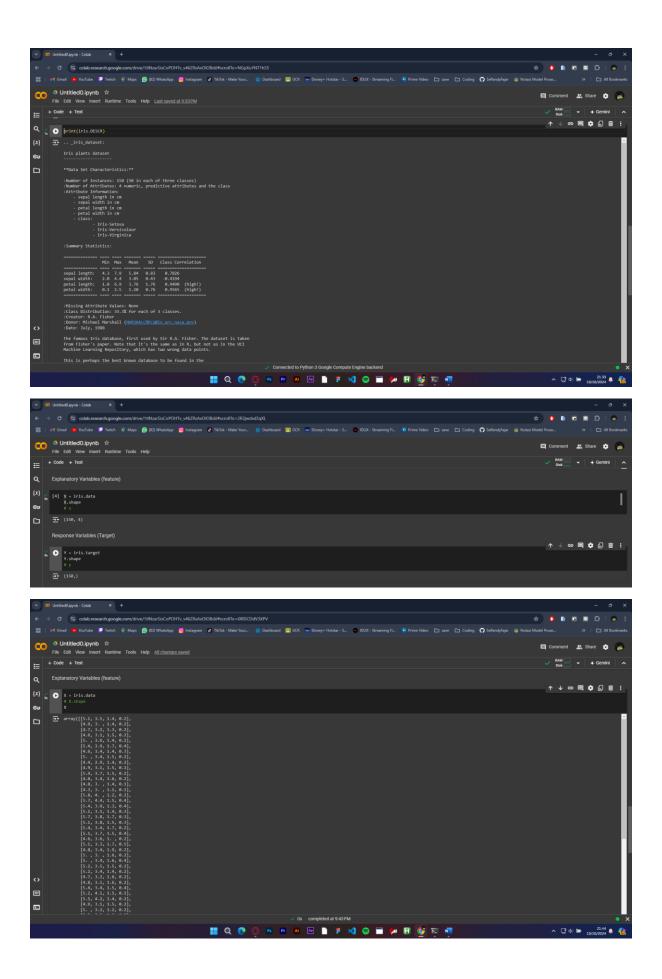


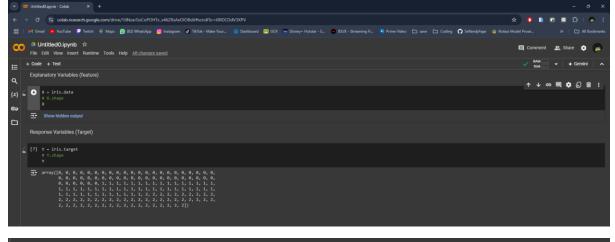


Soal 4

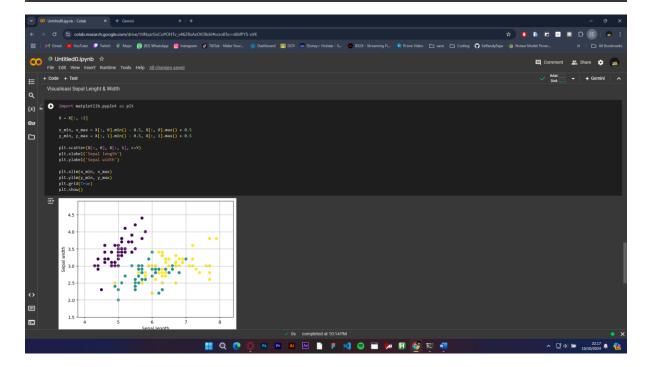


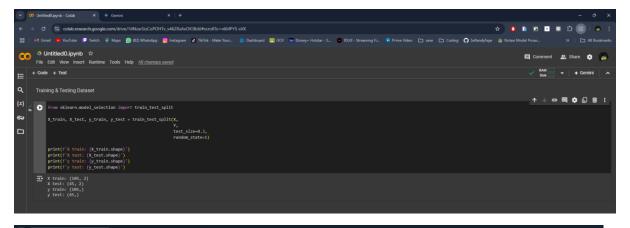


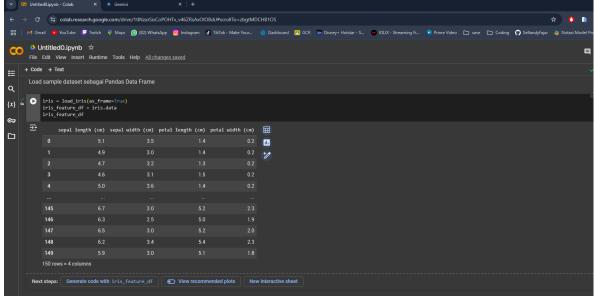




Feature & Target Names [8] feature_name = iris.feature_names feature_name ['sepal length (cm)', 'sepal width (cm)', 'petal length (cm)', 'petal width (cm)'] [9] target_name = iris.target_names target_name array(['setosa', 'versicolor', 'virginica'], dtype='<U10')







```
Load sample dataset iris dataset

{x}

{x}

on

[2] from sklearn.datasets import load_iris

iris = load_iris()

X = iris.data

y = iris.target

Splitting dataset training & testing set

from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.4, random_state=1)
```

```
Training model Machine Learning

from sklearn.neighbors import KNeighborsClassifier

model = KNeighborsClassifier(n_neighbors=3)

model.fit(X_train, y_train)

KNeighborsClassifier  
KNeighborsClassifier(n_neighbors=3)
```

```
Deploy model Machine Learning | Dumping dan Loading model Machine Learning

[8] import joblib joblib.dump(model, 'iris_classifier_knn.joblib')

['iris_classifier_knn.joblib']

production_model = joblib.load('iris_classifier_knn.joblib')
```

```
Sample data
  import numpy as np
from sklearn import preprocessing
         sample_data
   Suggested code may be subject to a license | sample_data.shape
   → (4, 3)
  Binaritation
v [12] sample_data
  ▶ preprocessor = preprocessing.Binarizer(threshold=0.5)
binarized_data = preprocessor.transform(sample_data)
binarized_data
  ₹ array([[1., 0., 1.], [0., 1., 1.], [0., 0., 1.], [1., 1., 0.]])
os [14] sample_data
```