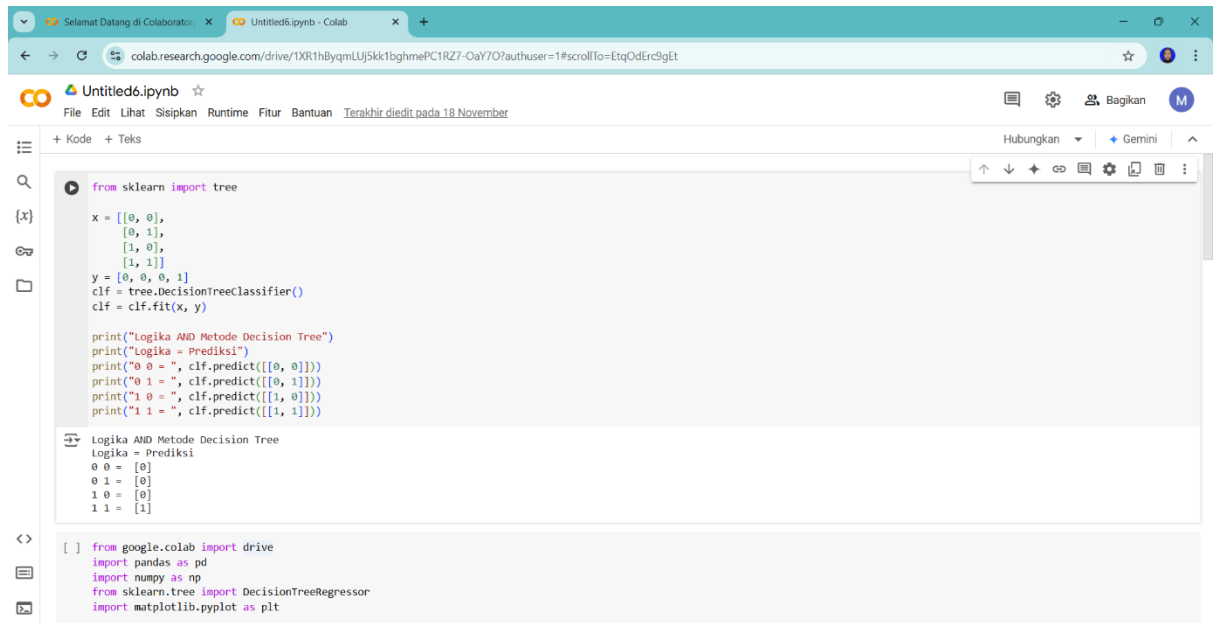


- Kode Program 1 dan Kode Program Sinus



```
from sklearn import tree

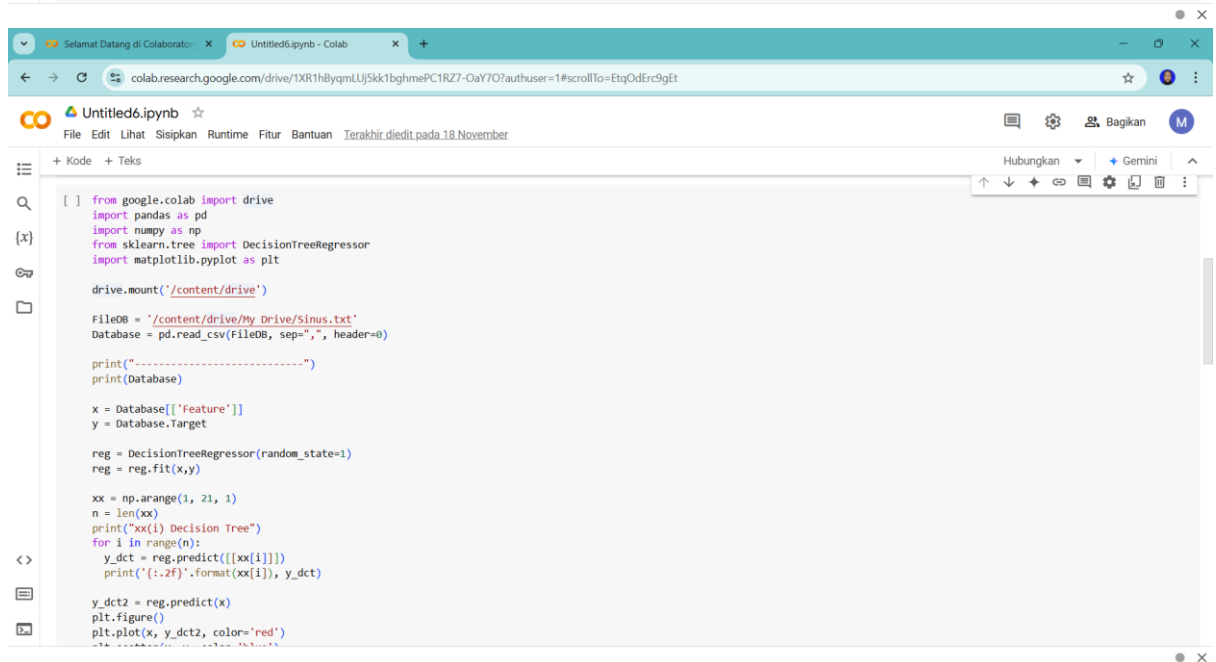
x = [[0, 0],
      [0, 1],
      [1, 0],
      [1, 1]]

y = [0, 0, 0, 1]
clf = tree.DecisionTreeClassifier()
clf = clf.fit(x, y)

print("Logika AND Metode Decision Tree")
print("Logika = Prediksi")
print("0 0 = ", clf.predict([[0, 0]]))
print("0 1 = ", clf.predict([[0, 1]]))
print("1 0 = ", clf.predict([[1, 0]]))
print("1 1 = ", clf.predict([[1, 1]]))
```

Logika AND Metode Decision Tree  
Logika = Prediksi  
0 0 = [0]  
0 1 = [0]  
1 0 = [0]  
1 1 = [1]

```
[ ] from google.colab import drive
import pandas as pd
import numpy as np
from sklearn.tree import DecisionTreeRegressor
import matplotlib.pyplot as plt
```



```
[ ] from google.colab import drive
import pandas as pd
import numpy as np
from sklearn.tree import DecisionTreeRegressor
import matplotlib.pyplot as plt

drive.mount('/content/drive')

File08 = '/content/drive/My Drive/Sinus.txt'
Database = pd.read_csv(File08, sep=",", header=0)

print("-----")
print(Database)

x = Database[['Feature']]
y = Database.Target

reg = DecisionTreeRegressor(random_state=1)
reg = reg.fit(x,y)

xx = np.arange(1, 21, 1)
n = len(xx)
print("xx(i) Decision Tree")
for i in range(n):
    y_dct = reg.predict([[xx[i]]])
    print('{:.2f}'.format(xx[i]), y_dct)

y_dct2 = reg.predict(x)
plt.figure()
plt.plot(x, y_dct2, color='red')
```

```
colab.research.google.com/drive/1XR1hByqnlUj5kk1bghmePC1RZ7-OaY7O?authuser=1#scrollTo=EtgOdErc9Gt

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+ Kode + Teks

[ ] reg = DecisionTreeRegressor(random_state=1)
reg = reg.fit(x,y)

xx = np.arange(1, 21, 1)
n = len(xx)
print("xx(i) Decision Tree")
for i in range(n):
    y_dct = reg.predict([[xx[i]]])
    print('{:.2f}'.format(xx[i]), y_dct)

y_dct2 = reg.predict(x)
plt.figure()
plt.plot(x, y_dct2, color='red')
plt.scatter(x, y, color='blue')
plt.title('prediksi Data Menggunakan Decision Tree')
plt.xlabel('x')
plt.ylabel('y')
plt.legend(['Decision Tree', 'data'], loc=2)
plt.show()

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

-----
Feature Target
0 1 0.841471
1 2 0.989297
2 3 0.141120
3 4 -0.756802
4 5 -0.958924
5 6 -0.279415
6 7 0.656987
7 8 0.989358
```

```
colab.research.google.com/drive/1XR1hByqnlUj5kk1bghmePC1RZ7-OaY7O?authuser=1#scrollTo=EtgOdErc9Gt

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+ Kode + Teks

[ ] Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).

-----
Feature Target
0 1 0.841471
1 2 0.989297
2 3 0.141120
3 4 -0.756802
4 5 -0.958924
5 6 -0.279415
6 7 0.656987
7 8 0.989358
8 9 0.412118
9 10 -0.544021
10 11 -0.999990
11 12 -0.536573
12 13 0.420167
13 14 0.990607
14 15 0.650288
15 16 -0.287903
16 17 -0.961397
17 18 -0.750987
18 19 0.149877
19 20 0.912945
xx(i) Decision Tree
1.00 [0.84147098]
2.00 [0.98929743]
3.00 [0.14112001]
4.00 [-0.75680249]
5.00 [-0.95892427]
6.00 [-0.2794155]
7.00 [0.6569866]
8.00 [0.98935825]
9.00 [0.41211848]
10.00 [-0.54402111]
```



Selamat Datang di Colaborator

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Untitled6.ipynb

File Edit Lihat Sisipkan Runtime Fitur Bantuan Semua perubahan telah disimpan

+ Kode + Teks

```
from sklearn import tree

x = [[0, 0, 0],
      [0, 5, 0],
      [0, 0, 5],
      [0, 5, 5],
      [5, 5, 0],
      [5, 0, 5],
      [5, 5, 5],
      [10, 5, 5],
      [5, 10, 5],
      [10, 10, 10]]

y = [0,0,0,5,5,10,10,5,0]
clf = tree.DecisionTreeClassifier()
clf = clf.fit(x, y)

print("Logika AND Metode Decision Tree")
print("Logika = Prediksi")
print("0 0 0 = ", clf.predict([[0, 0, 0]]))
print("0 5 0 = ", clf.predict([[0, 5, 0]]))
print("0 0 5 = ", clf.predict([[0, 0, 5]]))
print("0 5 5 = ", clf.predict([[0, 5, 5]]))
print("5 5 0 = ", clf.predict([[5, 5, 0]]))
print("5 0 5 = ", clf.predict([[5, 0, 5]]))
print("5 5 5 = ", clf.predict([[5, 5, 5]]))
print("10 5 5 = ", clf.predict([[10, 5, 5]]))
print("5 10 5 = ", clf.predict([[5, 10, 5]]))
print("10 10 10 = ", clf.predict([[10, 10, 10]]))
```

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Selamat Datang di Colaborator

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File Edit Lihat Sisipkan Runtime Fitur Bantuan Semua perubahan telah disimpan

+ Kode + Teks

```
print("Logika AND Metode Decision Tree")
print("Logika = Prediksi")
print("0 0 0 = ", clf.predict([[0, 0, 0]]))
print("0 5 0 = ", clf.predict([[0, 5, 0]]))
print("0 0 5 = ", clf.predict([[0, 0, 5]]))
print("0 5 5 = ", clf.predict([[0, 5, 5]]))
print("5 5 0 = ", clf.predict([[5, 5, 0]]))
print("5 0 5 = ", clf.predict([[5, 0, 5]]))
print("5 5 5 = ", clf.predict([[5, 5, 5]]))
print("10 5 5 = ", clf.predict([[10, 5, 5]]))
print("5 10 5 = ", clf.predict([[5, 10, 5]]))
print("10 10 10 = ", clf.predict([[10, 10, 10]]))
```

Logika AND Metode Decision Tree  
Logika = Prediksi  
0 0 0 = [0]  
0 5 0 = [0]  
0 0 5 = [0]  
0 5 5 = [5]  
5 5 0 = [5]  
5 0 5 = [5]  
5 5 5 = [10]  
10 5 5 = [10]  
5 10 5 = [5]  
10 10 10 = [0]

```
[1]: from google.colab import drive
import pandas as pd
import numpy as np
from sklearn.tree import DecisionTreeRegressor
import matplotlib.pyplot as plt
```

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