3/18/2018 Untitled

```
In [43]:
```

```
import numpy as np
from sklearn.datasets import load_iris
from sklearn import tree
```

In [37]:

```
#get Data..
iris = load_iris()

#to make simple i am going to del this particular data and take that data after
  to test my model..
test_index = [0,50,100]
```

In [56]:

```
#training data...
train_data = np.delete(iris.data, test_index , axis = 0)
train_target = np.delete(iris.target, test_index)
```

In [59]:

```
#testing data..
test_data = iris.data[test_index]
test_target = iris.target[test_index]
```

```
[[5.1 3.5 1.4 0.2]
[7. 3.2 4.7 1.4]
[6.3 3.3 6. 2.5]]
```

In [571:

```
#DecisionTree Classifier..
clf = tree.DecisionTreeClassifier()
clf.fit(train_data, train_target)
```

Out[57]:

In [64]:

```
#testing the fit model..
print("Predicted Output->F(X):{0}, Target Output->Y:{1}".format(clf.predict(test_data), test_target))
```

Predicted Output->F(X):[0 1 2], Target Output->Y:[0 1 2]

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In [66]:

```
#Calculate the accuracy..
from sklearn.metrics import accuracy_score
pred = clf.predict(test_data)
print(accuracy_score(test_target, pred))
```

1.0