

Author:- Jatin Khudania

- Create the Decision Tree classifier and visualize it graphically.
- The purpose is if we feed any new data to this classifier, it would be able to predict the right class accordingly.

[illegible]

Now let us define the Decision Tree Algorithm

```
In [ ]: # Defining the decision tree algorithm
from sklearn.tree import DecisionTreeClassifier
dtree=DecisionTreeClassifier()
dtree.fit(df,y)

print('Decision Tree Classifier Created')
```

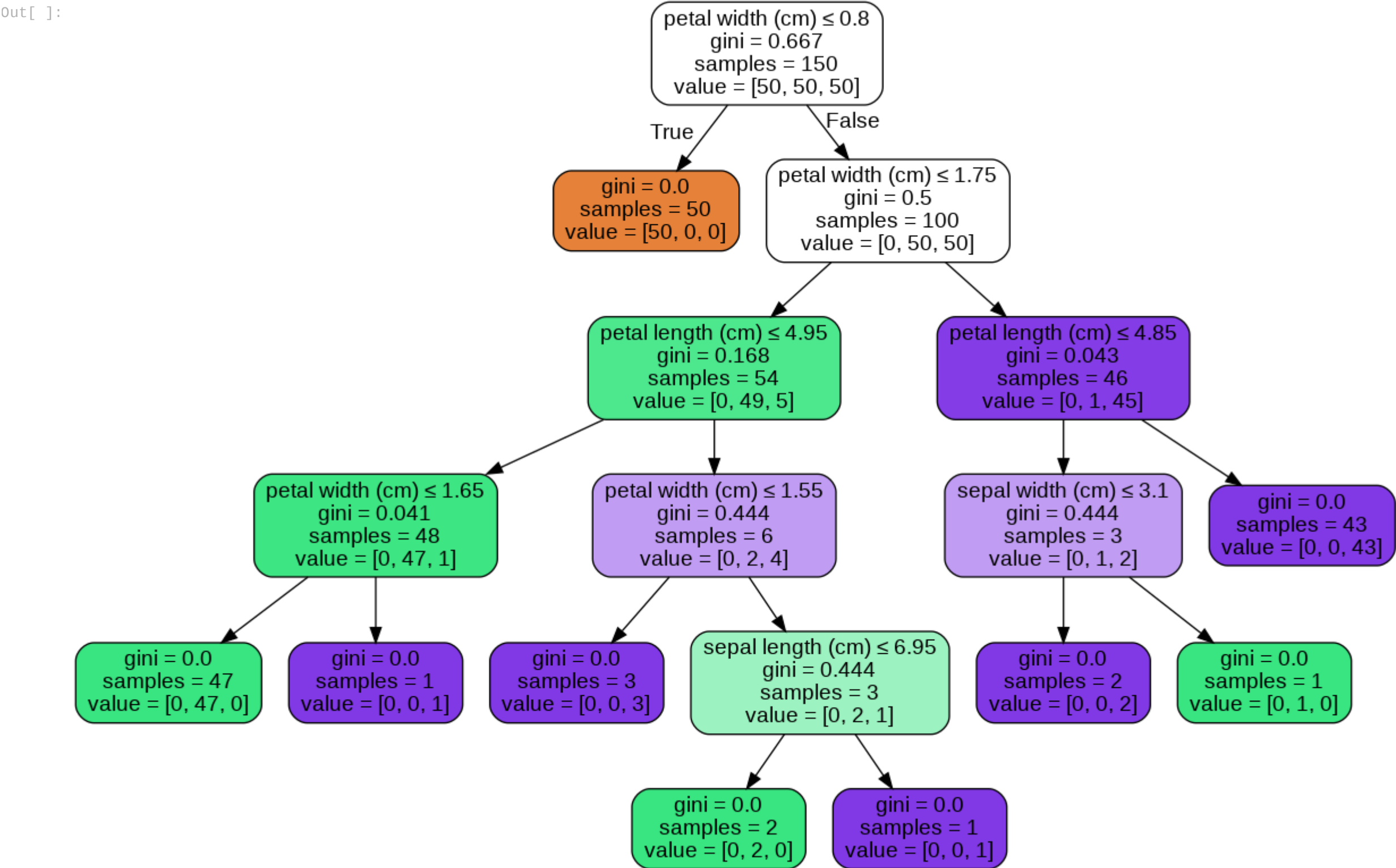
Decision Tree Classifier Created

Let us visualize the Decision Tree to understand it better.

```
In [ ]: # Install required libraries
!pip install pydotplus
!apt-get install graphviz -y
```

```
In [ ]: # Import necessary libraries for graph viz
from sklearn.externals.six import StringIO
from IPython.display import Image
from sklearn.tree import export_graphviz
import pydotplus

# Visualize the graph
dot_data = StringIO()
export_graphviz(dtree, out_file=dot_data, feature_names=iris.feature_names,
                filled=True, rounded=True,
                special_characters=True)
graph = pydotplus.graph_from_dot_data(dot_data.getvalue())
Image(graph.create_png())
```



# THANK YOU