Exercise 2
Due: Friday, May 4, 2018

Note:
- Submit your exercises by pushing them to your Github account/repositories
- Use Python
- Use PyCharm or Jupyter Notebook as your choice
- Use OpenCV or Scikit-image as your choice
- Send me an email if you have any difficulty in completing the exercise

1. Download the Iris flower data set (https://en.wikipedia.org/wiki/Iris_flower_data_set)

2. Write program to complete the following works:
    - Visualize the dataset
    - Build a decision tree classifier to classify this dataset
    - Modify parameters/hyper-parameters to get the best result

3. Take a break

4. Write the program to do the following works:
    - Build a SVM classifier to classify this dataset
    - Modify parameters/hyper-parameters to get the best result

5. What's the trade-off between bias and variance?

6. What is the difference between supervised and unsupervised machine learning?

7. How is KNN different from k-means clustering?