**C++ Program Case Study**

**Dataset:**
Here is a dataset containing 3 categories objects(cat, car, flower), each categories 100 images. You can download it from this link.
https://drive.google.com/file/d/1VsT9uPyfS17qla6HjPCO8-YFIFkLK3b_/view?usp=sharing

**Task:** Unsupervised objects clustering
Use C++ program to cluster the 3 categories images.
The basic pipeline could be: Load Image -> Pre-processing Image -> Extract Features -> Clustering -> Write Results
To implement the Clustering part, please implement it yourself **without calling the clustering function directly** from other 3 party libraries such as opencv.

**Submission Request:**
Dockfile: docker file to create the runtime environment
Readme.md: guide to run the code, and a brief summary of what methodology is used
Results.txt: saved clustering results
CMakeList.txt
build.sh: shell script to compile the code
src: source code
standard: c++ 11

**Submission Method:**
Please upload your project to https://github.com/, and send the repository link to us by email.