**Instruction for executing the following programs**

There are 3 programs in total.

1. For the question 4, the python file is q4.py
2. For the question 5, the python file is question5.py
3. For the question 6, the python file is q6.py

I’ve used Python for the coding question, the GUI used for programming was PyCharm Community Edition 2017.1.3.

***For question 4***, there is no dataset included for the program. So it can be run directly on any python interface.

***For question 5,*** the data provided was copied into a text file ‘data\_5.txt’ and placed in the same folder where the question5.py program existed.

So I loaded the data by using *open* command.

data = open(**'data\_5.txt'**, **'r'**)// command used in the program.

***For question 6***, the data provided was copied into a text file ‘data\_alda’ and placed in the same folder where the q6.py program existed.

So I loaded the data by using *open* command.

data=open(**'data\_alda'**,**'r'**)

For Running purpose, you may also copy the data into the same folder where you are running.

For safe side, I’ve provided even those two text files, so that you can create a folder and load data and programs in the same one.