The solution of the Homework contains two files for running the code: -

1. aditi_hw.py - It contains the python code.
2. config_hw2.txt - It is a configuration file for configuring the different options and different parts of the coursework code.To run the code change the config_hw2.txt to config_hw2.yaml format.

The command to run the code is "python3 -Wignore aditi_hw.py"

The rest is controlled by the configuration file.

In the configuration file part3, part4 and part5 represent Binary classification, One vs Rest classification and One vs Rest classification with regularizer respectively.
 Configurations of part3 :-

 To run part3 "execute" should be set to 1.
 To classify Class1 vs Class2, "execute_classification_1" of part3 need to be set to 1.
 To classify Class2 vs Class3 , "execute_classification_2" of part3 need to be set to 1.
 To classify Class1 vs Class3, "execute_classification_3" of part3 need to be set to 1.

 Configurations of part3 :-

 To run part4 "execute" should be set to 1.
 To classify Class1 vs All, "execute_classification_1" of part4 need to be set to 1.
 To classify Class2 vs All , "execute_classification_2" of part4 need to be set to 1.
 To classify Class3 vs All, "execute_classification_3" of part4 need to be set to 1.

 By default all the configurations are set to 1 and the regularization coefficient is set 0.01.