**Using the model to predict the protein-protein interaction between a pair of proteins using their FASTA files**

**Prerequisites**

Have the following packages/libraries installed:

Python 3.9 and above

Tensorflow

Numpy

Pandas

**Procedure**

* First put the model file (*PPI\_best\_final.h5*), the python script (*Protein-protein ML\_4\_prediction.py*), and the fasta files of the protein pair you want to test in the same directory/folder
* Open a code editor e.g. VS Code, SPYDER, PyCharm, etc.
* Open *Protein-protein ML\_4\_prediction.py* in the editor
* Edit the file paths for each FASTA file to include their names
* Run the script
* The prediction will be printed on the terminal. The probability of strong interaction will be first followed by the label assigned by the model (**0** for no interaction, **1** for interaction)