1. feature\_preparation\_VT: deleting the Mordred descriptors with standard deviations less than 0.10, input file is ‘mordred.csv’
2. feature\_preparation\_pearson: deleting the Mordred descriptors with Pearson correlation coefficients greater than 0.90
3. louvain\_cluster: identifying gene clusters by louvain algorithm, input file is ‘gene\_network.txt’
4. recursive\_feature\_elimination: screening the multimodal characteristics with the best 10-fold accuracy, input file is ‘multimodal\_characteristics.csv’
5. machine\_learning: SVM, RF, XGB modeling methods, input data are in ‘modeling\_data.csv’ file