Result

Experiment Number	Parameters Chosen	Results
1	hiddenNodes=4 epoch=1000	Train scores: Mean Square Error: 0.16827162763685638 Mean Absolute Error: 0.32501323161110063 R square Fit: 0.825150758312388 Loss: 0.16749651943567073 Test scores: Mean Square Error: 0.19785460656178733 Mean Absolute Error: 0.35877416152649716 R square Fit: 0.8065098797169368 Loss: 0.19609376787391813
2	hiddenNodes=4 epoch=2000	Train scores: Mean Square Error: 0.1454813933991626 Mean Absolute Error: 0.30406807187557816 R square Fit: 0.8488318460293468 Loss: 0.14607536460043757 Test scores: Mean Square Error: 0.17703204893367633 Mean Absolute Error: 0.3382458792756307 R square Fit: 0.8268731113347259 Loss: 0.1753814867070027
3	hiddenNodes=8 epoch=1000	Train scores: Mean Square Error: 0.14149414482958575 Mean Absolute Error: 0.2986284890370341 R square Fit: 0.8529749532102856 Loss: 0.14169008207926462 Test scores: Mean Square Error: 0.17375011888816902 Mean Absolute Error: 0.3283276155213916 R square Fit: 0.8300826450943934 Loss: 0.17475546387959578
4	hiddenNodes=8 epoch=2000	Train scores: Mean Square Error: 0.13600281278922732 Mean Absolute Error: 0.29235677371267216 R square Fit: 0.8586809373776442 Loss: 0.13636793733167815

		Test scores: Mean Square Error: 0.1692508774529764 Mean Absolute Error: 0.3222957523553006 R square Fit: 0.8344826375009696 Loss: 0.16936971151925143
5	hiddenNodes=14 epoch=1000	Train scores: Mean Square Error: 0.13868846224932127 Mean Absolute Error: 0.29608896206104823 R square Fit: 0.8558903078572025 Loss: 0.14023752744947365 Test scores: Mean Square Error: 0.1671348170292611 Mean Absolute Error: 0.32134727817351966 R square Fit: 0.8365520196246707 Loss: 0.17027915474861835
6	hiddenNodes=14 epoch=2000	Train scores: Mean Square Error: 0.13417018359929475 Mean Absolute Error: 0.2909640310832649 R square Fit: 0.8605852026935168 Loss: 0.13556042020585618 Test scores: Mean Square Error: 0.16211580177482557 Mean Absolute Error: 0.3171236322602114 R square Fit: 0.841460320129567 Loss: 0.1642548731263084