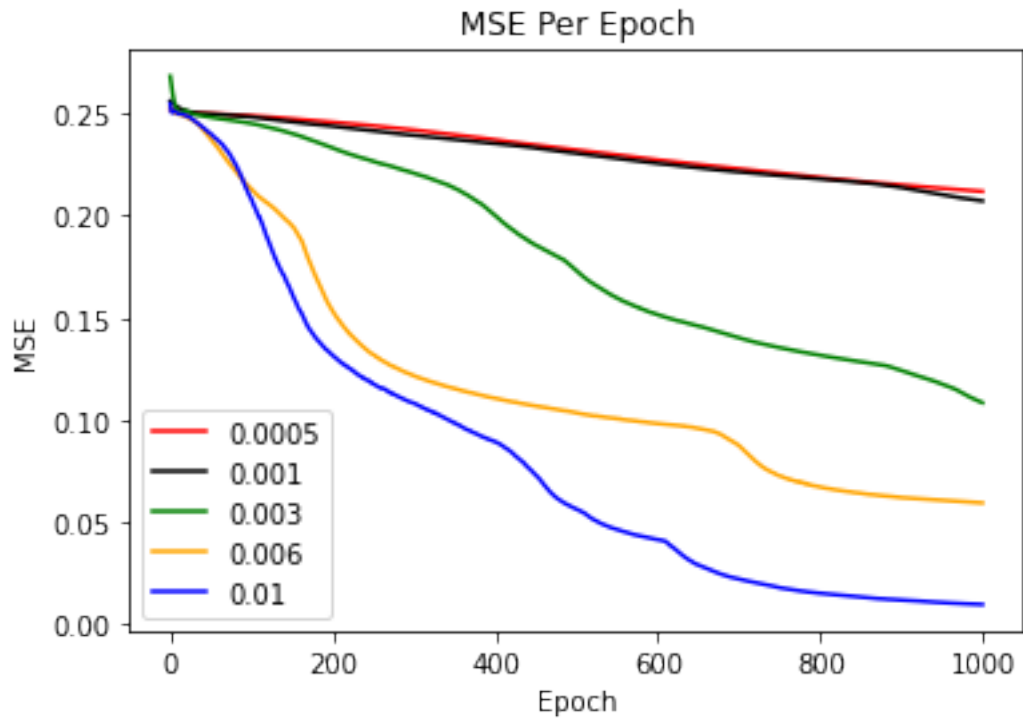
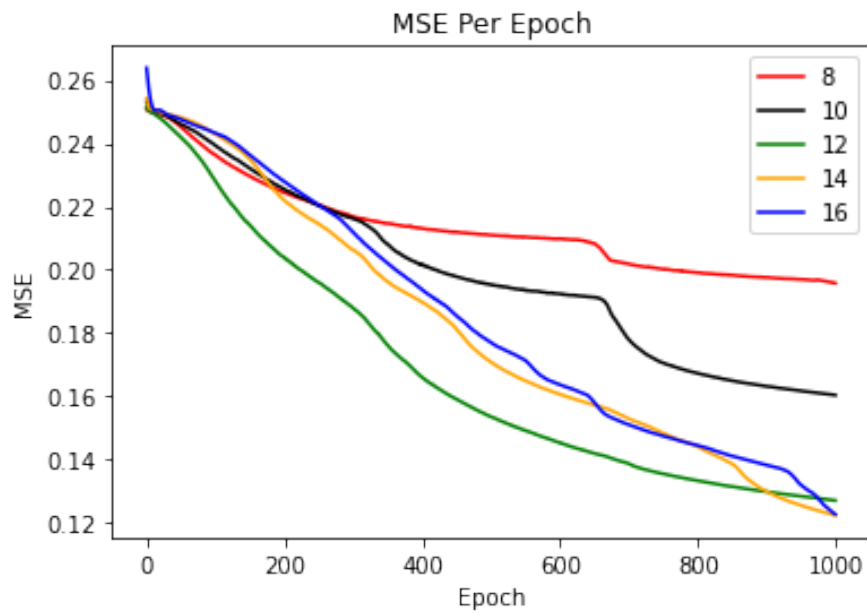


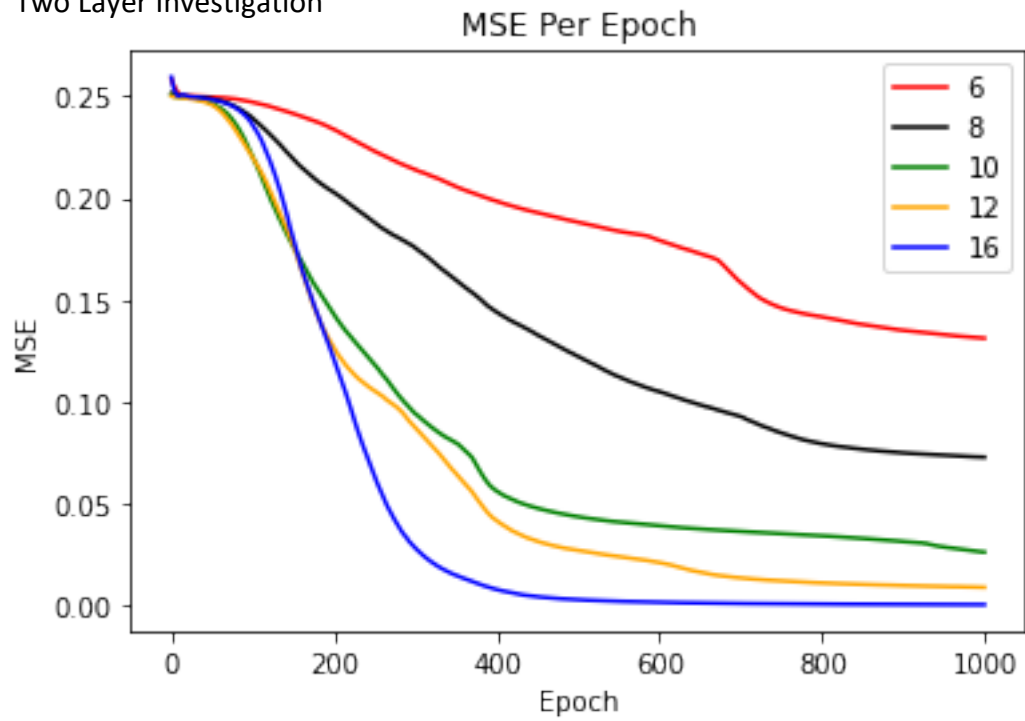
Learning Rate Investigation



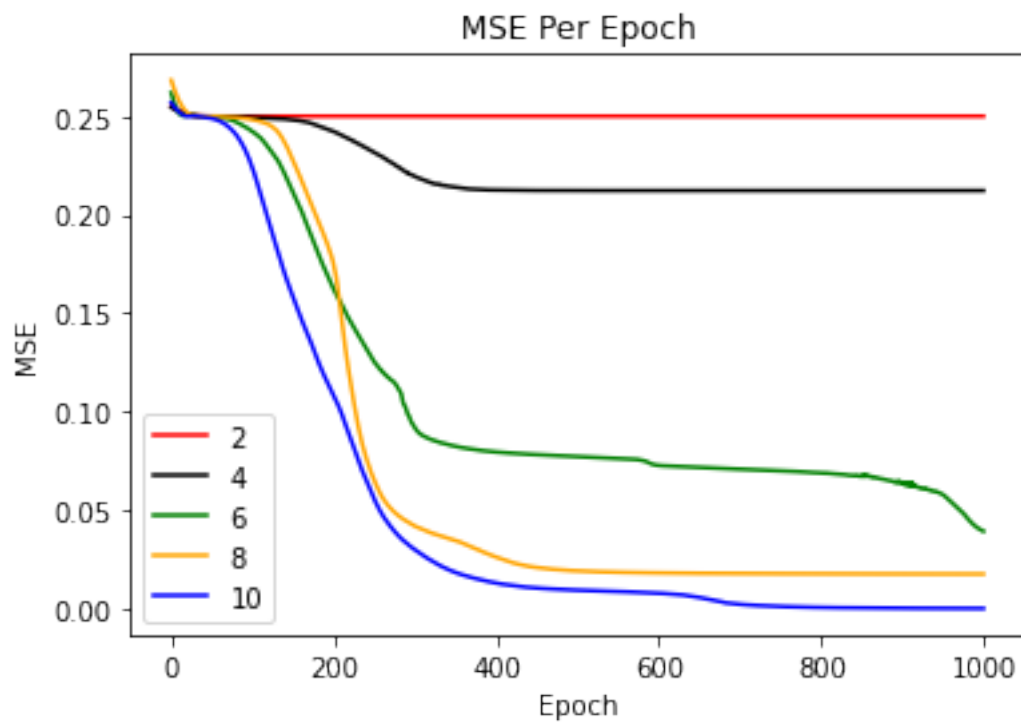
Layer Size Investigation:



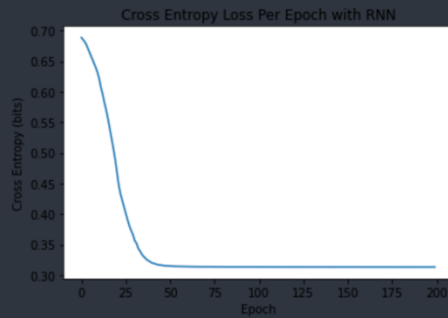
Two Layer Investigation



For Fun: 5 layer investigation



RNN Investigation:



```
tensor([[9.2387e-05, 9.9991e-01]], grad_fn=<SoftmaxBackward>)
```

```
In [214]: # Should be [0,1]
```

```
mynet.forward_predict(torch.FloatTensor([1]))
```

```
tensor([[1.9892e-04, 9.9980e-01]], grad_fn=<SoftmaxBackward>)
```

```
tensor([[9.9967e-01, 3.3396e-04]], grad_fn=<SoftmaxBackward>)
```

```
mynet.forward_predict(torch.FloatTensor([1,1,1,1,1,1]))
```

```
tensor([[2.3210e-05, 9.9998e-01]], grad_fn=<SoftmaxBackward>)
```

```
tensor([[9.9991e-01, 8.7357e-05]], grad_fn=<SoftmaxBackward>)
```