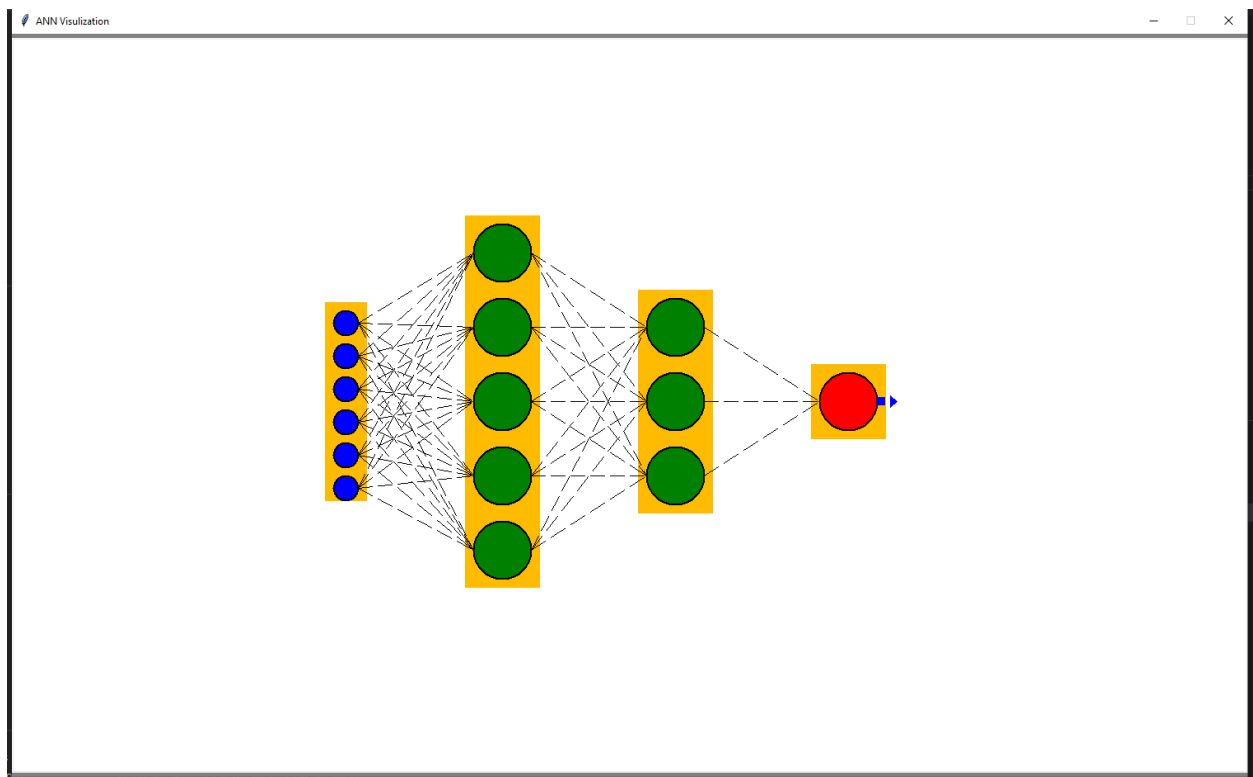


Example1.py

```
from DeepLearningTools import FeedForward

model=FeedForward()
model.Add_Layer(5, "Relu")
model.Add_Layer(3, "Relu")
model.Add_Layer(1, "Sigmoid", Threshold_Value=0.5)
Sample_Data=[200,100,121,88,77,99]
model.compile(Inputs=len(Sample_Data), Random_Values=[0,1])
model.ANNToolBox(Action="draw", Digram_Title="ANN Visulization")
```



Example2.py

```
from DeepLearningTools import FeedForward
```

```
model=FeedForward()
```

```
model.Add_Layer(5, "Relu")
```

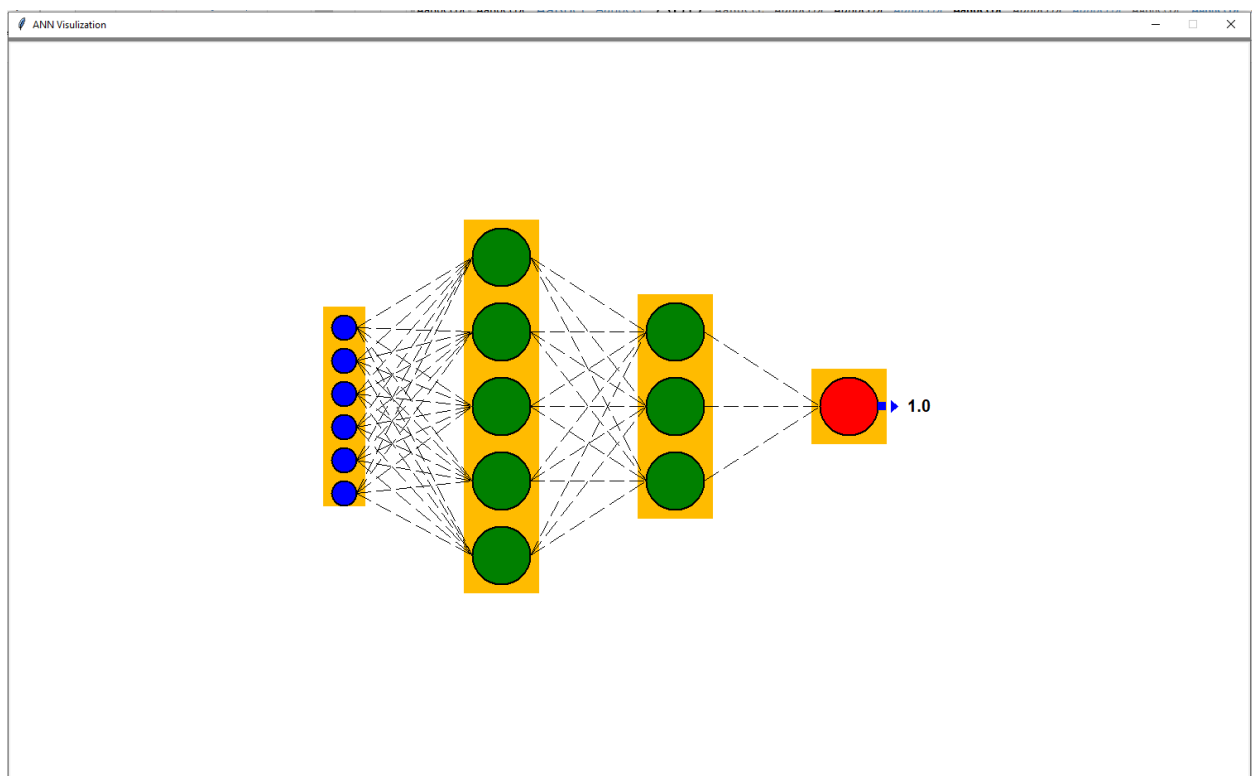
```
model.Add_Layer(3, "Relu")
```

```
model.Add_Layer(1, "Sigmoid", Threshold_Value=0.5)
```

```
Sample_Data=[200,100,121,88,77,99]
```

```
model.compile(Inputs=len(Sample_Data), Random_Values=[0,1])
```

```
model.ANNToolBox(Action="predict", Sample_Data=Sample_Data, Digram_Title="ANN  
Visulization")
```



Example3.py "Generate JSON ANN structure"

```
from DeepLearningTools import FeedForward

model=FeedForward()

model.Add_Layer(6, "Relu")

model.Add_Layer(2, "Relu")

model.Add_Layer(2, "Sigmoid", Threshold_Value=0.5)

Sample_Data=[200,100,121,88,77,99]

model.compile(Inputs=len(Sample_Data), Random_Values=[0,1])

model.Create_JSON_Structure("ANN.json")
```

ANN.json

```
{
  "1": [
    "ReLU",
    "None",
    [
      [
        0.6037326299633499,
        0.9460943651429344,
        0.6984360952121579,
        0.9114022967722655,
        0.6710425168884373,
        0.25640757096081745,
        -1
      ],
      [
        0.679011959685461,
        0.5422314583738986,
        0.3167478762100129,
        0.8873515424317816,
        0.8388460295881677,
        0.6428197077595998,
        1
      ],
      [
        0.13418556605817766,
        0.38486871387797195,
```

```
        0.2143792301492745,  
        0.8235008308250561,  
        0.9180478009436556,  
        0.5852220745993881,  
        -1  
    ],  
    [  
        0.5035656351803225,  
        0.568631614028282,  
        0.8862336280868388,  
        0.47925976864876263,  
        0.5938478333403778,  
        0.333952175928386,  
        -1  
    ],  
    [  
        0.46632204666121013,  
        0.4509194657813054,  
        0.19457331338036699,  
        0.6040424893959644,  
        0.41530127637769365,  
        0.3831928701270385,  
        1  
    ],  
    [  
        0.077943022253254,  
        0.2683570771445932,  
        0.8102759479275348,  
        0.5209120151627398,  
        0.028508367117688893,  
        0.6170445752228543,  
        1  
    ]  
    ]  
],  
"2": [  
    "ReLU",  
    "None",  
    [  
        [  
            0.6126030916611198,  
            0.8114677154292295,  
            0.3523756303986111,  
            0.20365592212011718,  
            0.9592408887469981,
```

```
        0.37577866294431106,  
        -1  
    ],  
    [  
        0.4199101478696792,  
        0.5026876986273995,  
        0.5285941133636188,  
        0.6340810451775518,  
        0.582018195609481,  
        0.872561239687532,  
        1  
    ]  
]  
],  
"3": [  
    "Sigmoid",  
    0.5,  
    [  
        [  
            0.21452548765293034,  
            0.8579863117490844,  
            1  
        ],  
        [  
            0.9300490148265221,  
            0.9648458586620694,  
            1  
        ]  
    ]  
],  
"0": [  
    "None",  
    "None",  
    [  
        [  
            0  
        ],  
        [  
            0  
        ],  
        [  
            0  
        ],  
        [  
            0  
        ]  
    ]  
]
```

```
    ],  
    [  
        0  
    ],  
    [  
        0  
    ]  
]
```

Example4.py : Create ANN structure from json file "Load ANN.JSON"

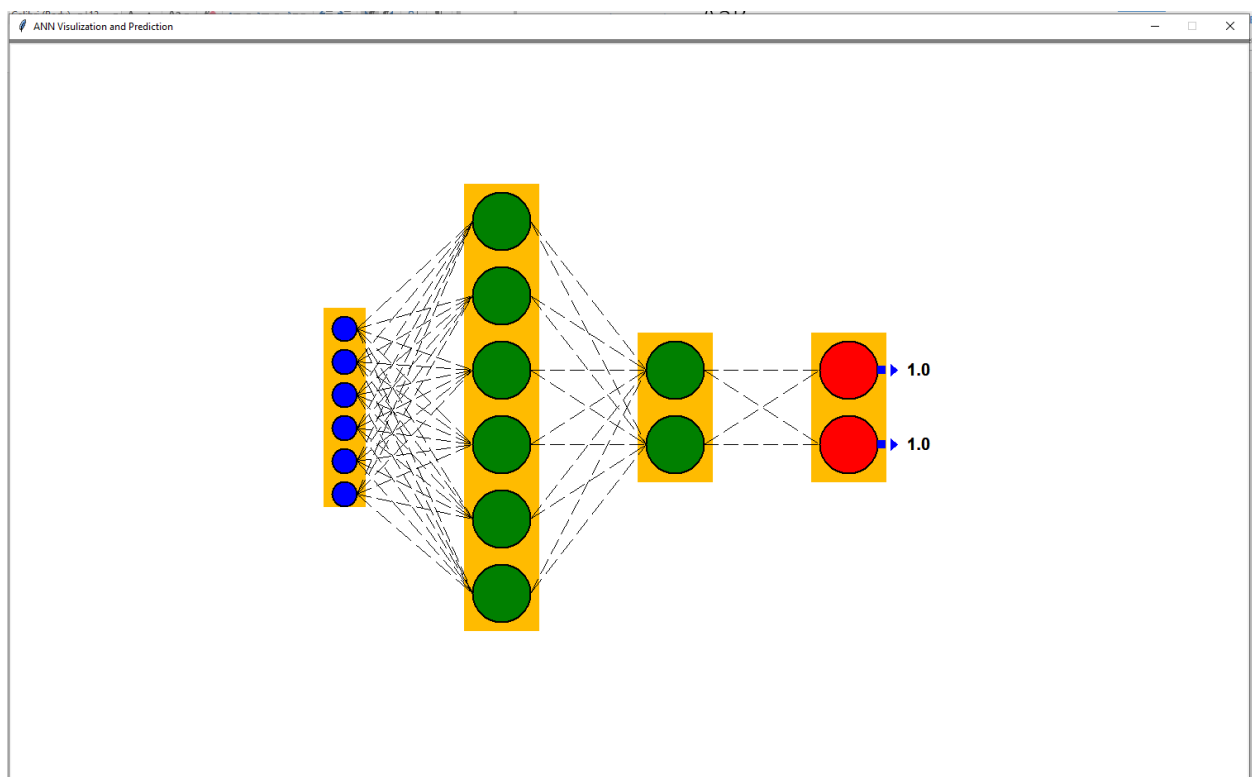
```
from DeepLearningTools import FeedForward
```

```
model=FeedForward()
```

```
Sample_Data=[200,100,121,88,77,99]
```

```
model.compile("ANN.json")
```

```
model.ANNToolBox(Action="predict", Sample_Data=Sample_Data, Digram_Title="ANN  
Visulization and Prediction")
```



Example5.py "Big ANN Structure"

```
from DeepLearningTools import FeedForward
```

```
model=FeedForward()
```

```
model.Add_Layer(100, "Relu")
```

```
model.Add_Layer(15, "Relu")
```

```
model.Add_Layer(15, "Relu")
```

```
model.Add_Layer(15, "Relu")
```

```
model.Add_Layer(15, "Relu")
```

```
model.Add_Layer(5, "Sigmoid", Threshold_Value=0.5)
```

```
Sample_Data=[2,1,1,8,7,9,9,9,9,9]
```

```
model.compile(Inputs=len(Sample_Data), Random_Values=[0,1])
```

```
model.ANNToolBox(Action="predict", Sample_Data=Sample_Data, Digram_Title="ANN  
Visulization and Prediction")
```

