In order to create a simulation set-up, 4 files are required:

- param.py -> This is the python file that lists all parameters for the network.
- BGnodes —> This is a parent class that initialises all the nodes of the BG without connecting them. This can be useful for neuron model tuning purposes before making connections
- BGnetwork —> Child class that inherits from BGnodes and connects the nodes according to the scheme listed in param.py
- main.py —> The main file where the BGnetwork is created or any other custom class that inherits from BGnetwork

## class BGnodes (neuron parameters, population parameters)

This class initialises the nodes with given neuron and population parameters. No connections are made.

## Methods

```
connectMultimeters (recordG = False)
records V_m, g_ex and g_in of all neurons

connectSpikeDet( )
connects a spike detector to every neuron and records it to a file simulate ( time )
Simulates the network for a given time

plotRaster —> Deprecated

dictionary = get_G ( )
Returns conductance G for each population in a dictionary

setle ( le )
Sets the input current to the neurons
```

class BGnetwork (neuron parameters, synaptic parameters, input noise parameters, synaptic parameters for input noise, connection scheme, population parameters)

This class connects the network with given parameters.

## Examples