In [2]:
```
import numpy as np
```

In [3]:
```
#execute OR gate using Hebbian learning
#Model hebbian learning rule using python
from random import choice

activation = lambda x: 0 if x<0 else 1

data = [
    (np.array([1,1]),1),
    (np.array([1,0]),0),
    (np.array([0,1]),0),
    (np.array([0,0]),0)
]
x,y = choice(data)
print(x,y)
w = np.array([1,0.5])
val = np.dot(x,w)
pred = activation(val)
pred

error =  y - pred
error
```

```
[1 1] 1
```

Out[3]:
```
0
```

In [ ]:
```

```