**Soccer Enigma**

**Problem:**

Whether to play soccer is classified based on 3 parameters.

* The condition of playing field [1/0]
* Sufficient number of players [1/0]
* Weather [1/0]

|  |  |  |  |
| --- | --- | --- | --- |
| **Playing Field** | **Players** | **Weather** | **Soccer** |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 |

**Solution:**

I have trained the perceptron with 6 inputs excluding [1,1,0] and [1,0,0].

After 6th epoch the perceptron is trained and yields correct outputs for the given data.