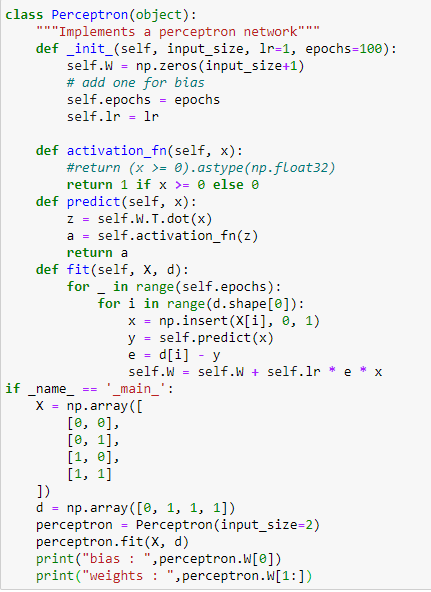
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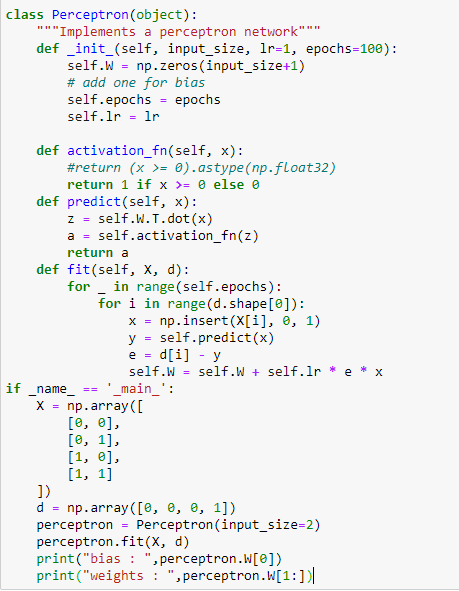
**SINGLE LAYER PERCEPTRON**

**AND PROBLEM**

**CODE :-**

**OUTPUT :-**

**OR PROBLEM**

**CODE :-**

**OUTPUT :-**

**XOR PROBLEM**

Perceptrons can only solve linearly separable problems. In the real world, however, many problems are actually linearly separable. For example, we can use a perceptron to mimic an AND or OR gate. However, since XOR is not linearly separable, we can’t use single-layer perceptrons to create an XOR gate.