**System of Linear Equations**

**System of Sentences**

We will first try to understand system of equations with some simple plain English sentences. Below is the table with 3 sets of system of sentences.

|  |  |
| --- | --- |
| **System of Sentences** |  |
| Madhu is a Data Scientist  Maxwell is a Cricketer | Complete System (also known as non-singular) |
| Madhu is a Data Scientist  Madhu is a Data Scientist | Redundant System (also known as singular) |
| Madhu is a Data Scientist  Madhu is illiterate | Contradictory System (also known as singular) |

*Complete System*: The complete system contains as many pieces of information as sentences.  
*Redundant System*: The redundant system contains same pieces of information in all sentences.  
*Contradictory System*: The contradictory system contains contradictory information in the sentence.

**System of Equations**

*System of equations* are similar to *system of sentences* in nature. We will try to understand *the system of equations*with some examples.

**Example-1**:

You bought an Apple(a) and Banana(b) for 10 rupees.  
You bought an Apple(a) and two Bananas(2b) for 12 rupees.

*Task*: Find single Apple and Banana cost?

Here in this example, two sentences hold different information. So, we can find the cost.

**Example-2:**