What is unit?

Unit of measurement is magnitude of a quantity, defined and adopted by convention or by law, that is used as a standard for measurement of the same kind of quantity. Any other quantity of that kind can be expressed as a multiple of the unit of measurement.

For example, Length is a physical quantity. The meter is a unit of length that represents definite length. When we say 10 metres, mean 10 times length called "metre". Measurement is process of determining how large or small a physical quantity is as compared to basic reference quantity of same kind.

What is SI system?

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| Symbol | Unit | Quantity |
| A | Ampere | Electric current |
| K | Kelvin | temperature |
| S | Second | time |
| M | Meter | length |
| Kg | Kilogram | mass |
| Cd | Candela | Luminious intensity |
| Mol | Mole | amount |

SI Unit is short form of system international. It has seven basic unit. All remaining is derived from it. Like force unit is kg m/second2 is derived from kilogram , meter and second.

How does it works?

First take input value of one unit. Then it multiply with scale to convert it to SI unit’s value. After converting into SI unit value , it converts into your required unit value by multiplying with scale.

Example:

In length scale if we have to convert 2 kilometer into centimeter. Then following is procedure:

First we convert kilometer into meter by multiplying 1000.

So we have 2\*1000. It has value of 2000 meter.

Then we have to convert into centimeter by multiplying scale of 100. It has value of 2000\*100 = 200000 cm.

So finally we have 2 kilometer = 200,000 centimeter.