RDBMS Terminologies:

- **Types of Attributes:**

  - **Simple Attributes**
    An attribute that has atomic values which cannot be divided further and is called Simple attribute.
    For example, *stu_dob, stu_mobile, stu_adhaar* are Simple Attributes.

  - **Composite Attributes**
    An attribute that is combination of other attribute is called Composite Attribute.
    For example, *stu_address* attribute is composite attribute because it is composed of *address_line1, city, state, pin* attributes.
Stu_name is another example of composite attribute because it is composed of stu_firstname, stu_middlename, stu_lastname attributes.

**Single valued Attributes**

Single valued attributes are those attributes which can take only one value for a given entity from an entity set.

For example stu_rollno, stu_aadhaar are single valued attributes because these attribute can take only single value.

**Multi valued Attributes**

An attribute that can have more than one value is called Multi valued attribute.

For example stu_mobile, stu_email are Multi valued attribute because student can have more than one mobile number and email address.

**Derived Attributes**

An attribute whose value can be derived from another attribute is called Derived attribute.

For example stu_age is derived attribute because it is derived by stu_dob attribute.

**Key Attributes**

A key attribute can uniquely identify an entity from an entity set.

For example stu_rollno is key attribute because it can uniquely identify a student from set of students.
• **Attribute Domain**

Attribute Domain is a collection of all possible values from which the value for given column/attribute is drawn. There are domains defined for every attribute in each relation/able.

For example: *The domain of stu_name is the set of all alphabets strings of finite length.*

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**Exercises:**

1. Identify attribute domain for emp_mobile attribute.
2. Identify any two multi valued attribute.
3. Is it possible that one attribute can be of more than one type? Justify your answer with explanation.