# SSST Computer Education Besides R.S.Brothers Show Room Kphb- Hyderabad - 9866144861

**Python** 

## **Inheritance**

- > It is process of creating a new class by taking the properties of an existed class
- Advantages are
  - o Reusability of the code
  - Code optimization
  - Memory optimization
  - Cast and time of the project will be reduced
  - Efficiency of the project will be increased
- > A class which producing a new Class called "Superclass" or generalized class
- > A class which is inherited is called "Subclass" or specialized class
- Specialized class may have rich set of properties than generalized class
- > By creating an object of "superclass" we can access only "properties" of superclass, but not the subclass.
- > By Creating an Object of "subclass" then we can access properties of both "super" and "subclass"
- > It is always to culture to create an Object for sub class.

### **Types Of Inheritance:**

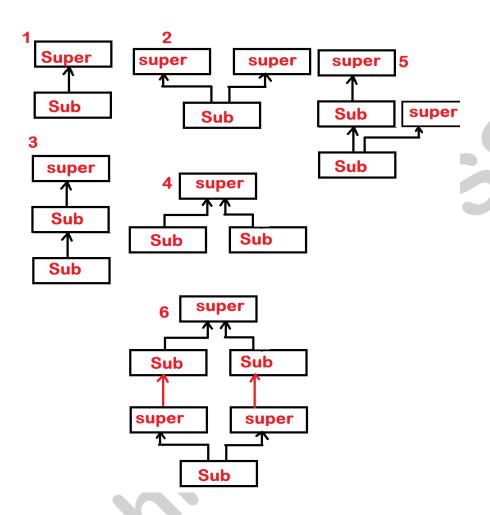
#### > Single inheritance

o Process of creating a sub class by taking the properties of a super class

#### Multiple inheritance

- Process of creating a sub class by taking the properties of more than one super class
- By the combinations of single and multiple , we have the following combinations
  - Multi-Level
  - o Hierarchy Inheritance

- Hybrid Inheritance
- o Multipath inheritance



Note: In order to access the properties from one class to another the corresponding classes need to have some relationship. In python we have to two types of relationships are Existed

- HAS-A Relationship [composition]
- ➤ IS-A Relation Ship [inheritance]