

Inheritance - class notes

- parent -child using extends keyword
- → child have access to all the methods and variable of parent class → By creating object of child class in main method I can access methods and variables of parent class.
- If I want to modify existing method of parent class → I have to override it in child class and implement logic
- In Inheritance, if object of parent is created, we can not access methods, variables of child class.

Methods rules

- **for methods**, java will search for a method in class whose object is created. If present it will execute it. If not → then it will try to search it in parent class. → If it is not in parent class then it will search method in Object class which is parent of all the classes.
- → When Object is created with parent class as reference class and child class as constructor.

```
1 Parent p = new Child();
```

→ When object is created, Parent class will load [this class will load when we will compile the code].

→ As Child constructor is used, when we run the code it will start searching for method from child class, if method is available in child class then it will execute else it will search it in a parent class.

→ If there is any method which is not available in parent class but it is in child class, can not be accessed because it will not load as parent class will load.

Variables rule

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```
1 Parent p = new Child();
```

- In this case, variable searching will start from parent class as variables can not be overridden