Polymorphism:

* **It means object can acquire multiple forms.**
* It can perform tasks in multiple ways.
* Poly🡺 many
* Morphism 🡺 forms
* It can be achieved by

1. Method overloading:

* In a class methods having same method name but different parameters.
* Code readability.

1. Method overriding:

* In a child class having same method name and same parameters of parent class then it is called method overriding.

1. Runtime Polymorphism/Dynamic method dispatch:

* Child class object assigning to parent class reference.
* So that object creation will take place at runtime.

Note:

* Cannot override static method 🡺 **method hiding**
* Private method cannot override

Public class Addition { 🡪 Method overloading

Public void add(int a, int b){

}

Public void add(int a, long b){

}

Public void add(int a, int b, int c) {

}

}

Addition ad = new Addition(); 🡪 compiletime polymorphism

Addition ad = new Summation(); 🡪 runtime polymorphim