Polymorphism

* It one of the oops concepts
* Poly – many/ multiple
* Morphism – forms/ states/ actions
* One task is performed by many ways is known as Polymorphism
* Man – plays multiple character in his life – Father, Brother, Son, Friend
* Water – solid, liquid, gas
* Methods- task, action

code optimization, increase the readability of code

* Types of Polymorphism

1. Compile Time Polymorphism

- Method check is done/ get bind at compilation time

- it is also known as Static binding

* Method overloading
* There are some rules to achieve Method overloading

1. Method name should be same
2. Methods are present in same class
3. Method arguments are should different on the basics of

- number of args

- types of args

- sequence of args

- return type doesn’t affect

2. Run Time Polymorphism

-Method check is done/ get bind at run time/ execution

- it is also known as dynamic binding

- binding done on the basics of object

* Method overriding
* If we want to change parent class method implementation, then we do Method overriding inside the child class.
* There are some rules to achieve Method overriding

1. Method name should be same
2. Methods are present in different class
3. Method arguments are should same on the basics of

- number of args

- types of args

- sequence of args

1. The classes having Inheritance relationship between them

* Return type should same