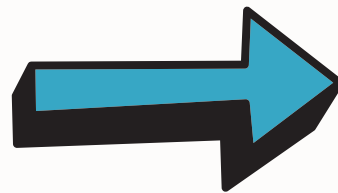


REAL WORLD EXAMPLES

POLYMORPHISM



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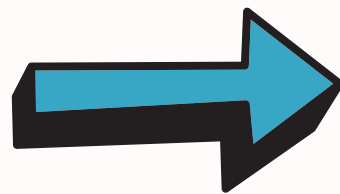


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What is Polymorphism?

Polymorphism is the ability of an object to take on many forms.

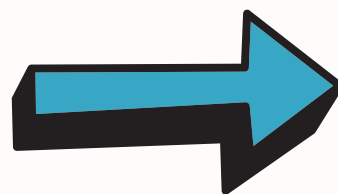
The most common use of polymorphism occurs when a parent class reference is used to refer to a child class object.



Polymorphism

many

forms



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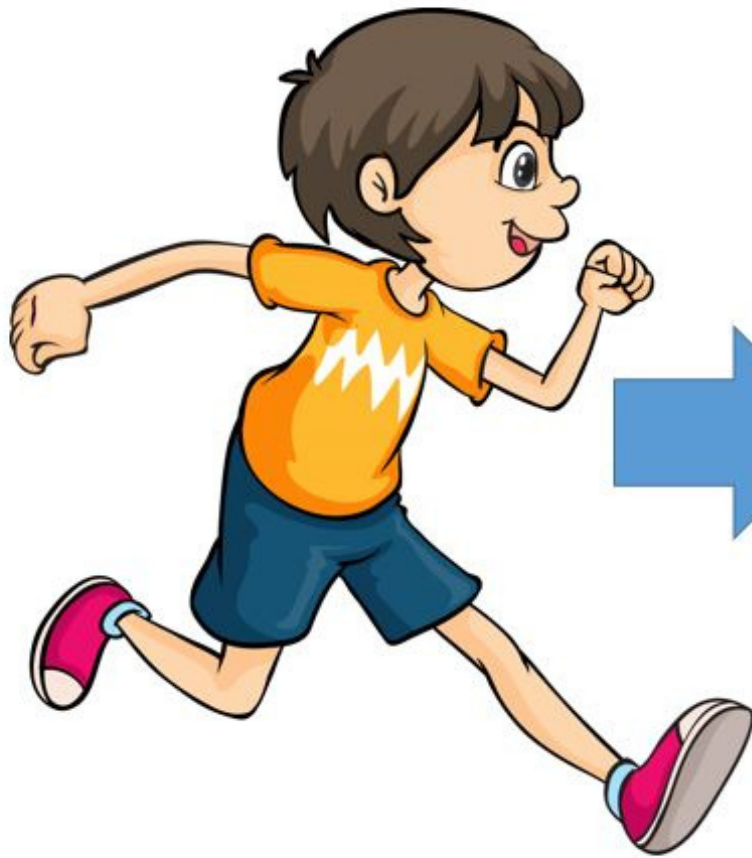


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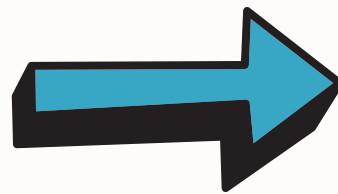


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Real Life Example



- In Shopping mall behave like customer
- In Bus behave like Passenger
- In School behave like Student
- At home behave like son



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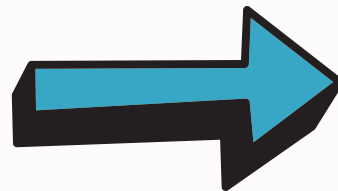


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Here one person can transform in more than one form 😊



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Method Overloading

Save a new Contact

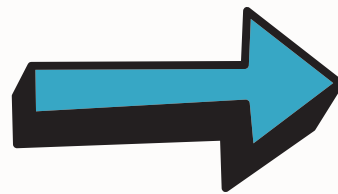


With 1 number

`createContact(name,num)`

With 2 numbers

`createContact(name,num1,num2)`



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Overriding vs Overloading

Overriding

```
class Dog{
    public void bark(){
        System.out.println("woof ");
    }
}
class Hound extends Dog{
    public void sniff(){
        System.out.println("sniff ");
    }

    public void bark(){
        System.out.println("bowl");
    }
}
```

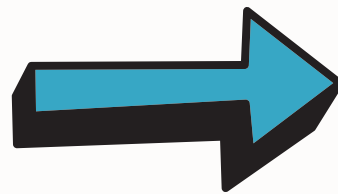
Same Method Name,
Same parameter

Overloading

```
class Dog{
    public void bark(){
        System.out.println("woof ");
    }

    //overloading method
    public void bark(int num){
        for(int i=0; i<num; i++)
            System.out.println("woof ");
    }
}
```

Same Method Name,
Different Parameter



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