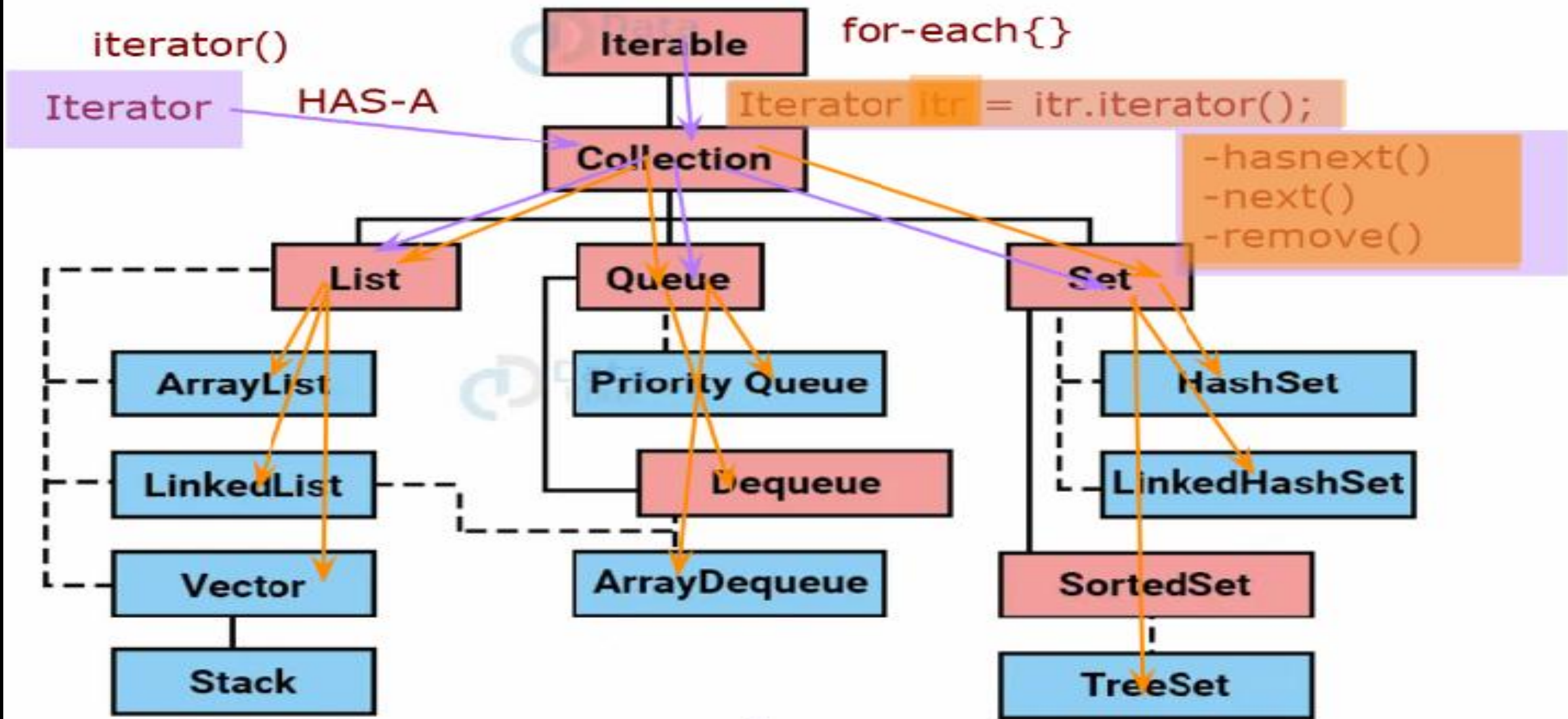


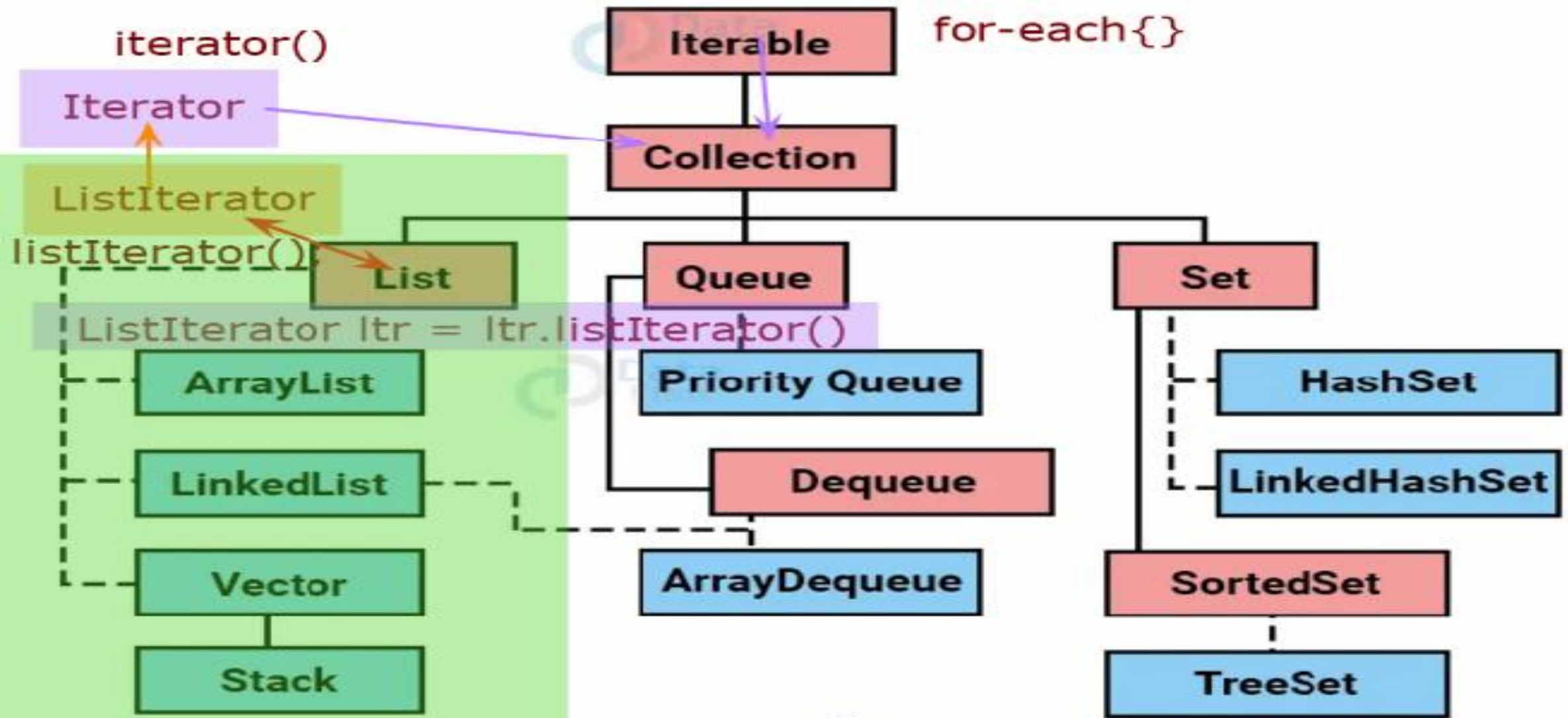


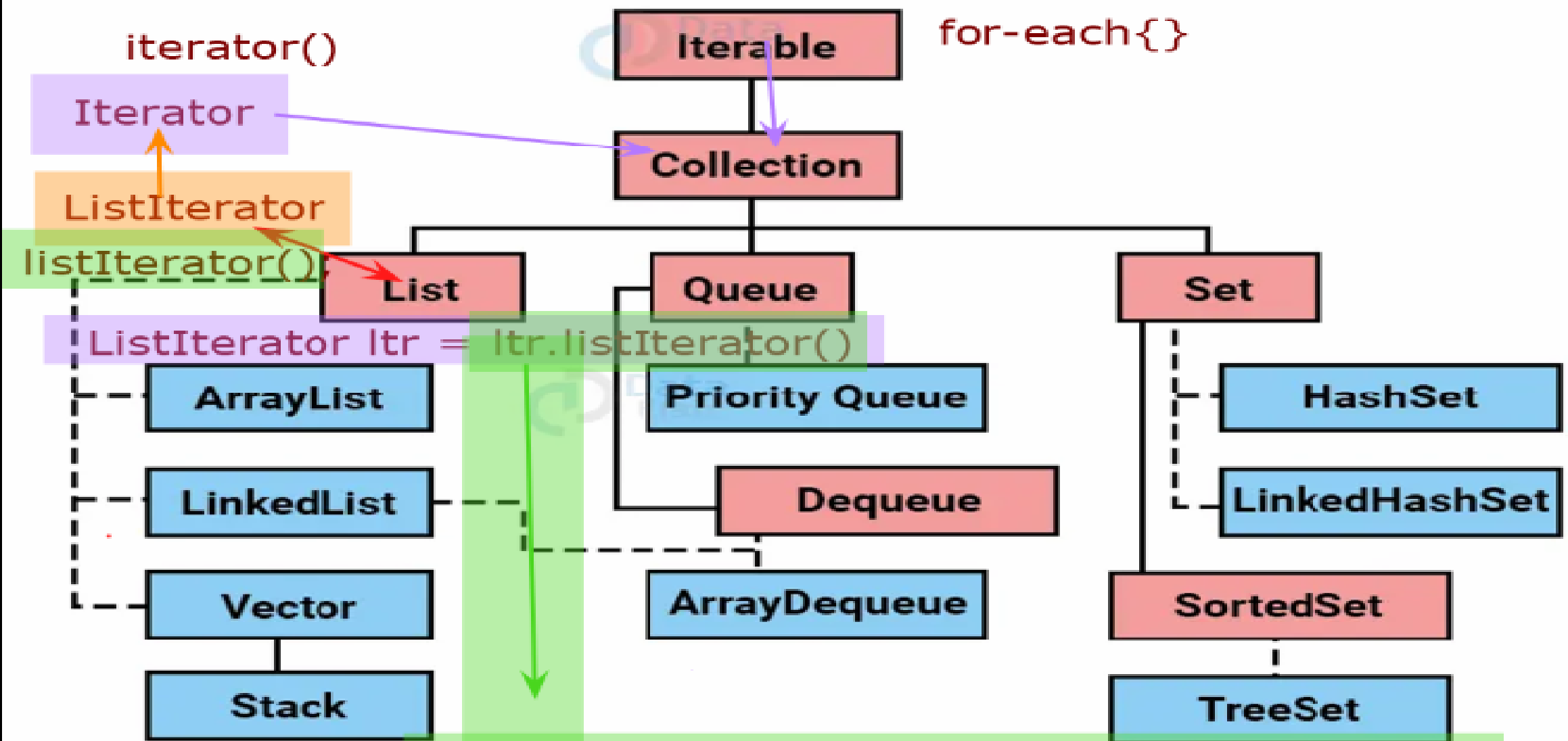
Object Oriented Programming with Java (OOPJ)

Session 5: Arrays

Kiran Waghmare







- hasNext(), next(): move forward
- hasPrevious(), previous(): move backward
- add()
- set()

```
package Day14;

import java.util.ArrayList;

/*class Employee{
    private int empId;
    private String empName;

    public Employee(int empId, String empName) {
        this.empId = empId;
        this.empName = empName;
    }

    @Override
    public String toString() {
        return empId + " " + empName;
    }

}*/

public class CollectionDemo {

    public static void main(String[] args) {

        ArrayList<Employee> a = new ArrayList<>();
        a.add(new Employee(11, "Ravi"));
    }
}
```

```
@Override  
public String toString() {  
    return empId + " " + empName;  
}
```

```
*/
```

```
public class CollectionDemo {
```

```
    public static void main(String[] args) {
```

```
        ArrayList<Employee> a = new ArrayList<>();
```

```
        a.add(new Employee(11, "Ravi"));
```

```
        a.add(new Employee(21, "Ravi1"));
```

```
        a.add(new Employee(51, "Ravi2"));
```

```
        a.add(new Employee(61, "Ravi3"));
```

```
        a.add(new Employee(14, "Ravi4"));
```

```
        a.add(new Employee(66, "Ravi5"));
```

```
        a.add(new Employee(41, "Ravi6"));
```

```
        System.out.println(a);
```

```
        for(Employee x : a) {  
            System.out.println(x);  
        }
```



```
public class GenericDemo1<T> {
    T x;
    GenericDemo1(T x){
        this.x = x;
    }
    public T show(){
        return this.x;
    }

    public static void main(String[] args) {

        GenericDemo1<Integer> g1 = new GenericDemo1<>(15);
        GenericDemo1<Double> g2 = new GenericDemo1<>(15.45657587);
        GenericDemo1<String> g3 = new GenericDemo1<>("Generics");

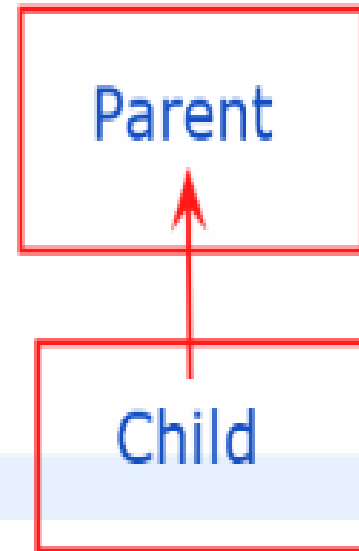
        System.out.println(g1.show());
        System.out.println(g2.show());
        System.out.println(g3.show());
    }
}
```

15
15.45657587
Generics

```
interface Hello{  
    void sayHello();  
}
```

```
public class AnonymousClassDemo {
```

```
    public static void main(String[] args) {  
        Hello h1 = new Hello()  
    }  
}
```



```
class Child extends Parent{  
}
```

```
Parent p = new Parent(){
```

child class

```
};
```



```
class Outer {  
    class Inner {  
        void show() {  
System.out.println("Inner class method");  
        }  
    }  
}
```

```
public class Test {  
    public static void main(String[] args) {  
        Outer outer = new Outer();  
        Outer.Inner inner = outer.new Inner();  
        inner.show();  
    }  
}
```

```
class Outer {  
    static class Inner {  
        void show() { System.out.println("Static Nested Class"); }  
    }  
}
```

```
public class Test {  
    public static void main(String[] args) {  
        Outer.Inner inner = new Outer.Inner();  
        inner.show();  
    }  
}
```

```
class Outer {  
    void outerMethod() {  
        class LocalInner {  
            void display() { System.out.println("Local Inner Class"); }  
        }  
        LocalInner obj = new LocalInner();  
        obj.display();  
    }  
}
```

```
abstract class A {  
    abstract void sound();  
}
```

```
public class Test {  
    public static void main(String[] args) {  
        A obj = new A() { // Anonymous Inner Class  
            void sound() {  
                System.out.println("Roar!"); }  
        };  
        obj.sound();  
    }  
}
```

```
class Outer {  
    int x = 10;  
    static class Inner {  
        void display() {  
            System.out.println(x);  
            System.out.println("Static nested class");  
        }  
    }  
}
```

```
class Outer {  
    class Inner {  
        static void show() {} }  
  
    static class StaticInner {  
        static void show() { System.out.println("Allowed in static  
nested class"); }  
    }  
}
```