SYNTAX
TECHNOLOGIES

JAVA

Class 25

Agenda

Final Keyword

Task

```
class Parent {
	m1(){
		System.out.println("In parent class m1");
	}
}
class Subclass extends Parent{
	m1(){
		System.out.println("In child class m1");
		}
	m2(){
		System.out.println("In m2");
	}
public static void main(String args[]){
	Parent obj= new Subclass();
	obj.m1();
	obj.m2();
	}
}
```

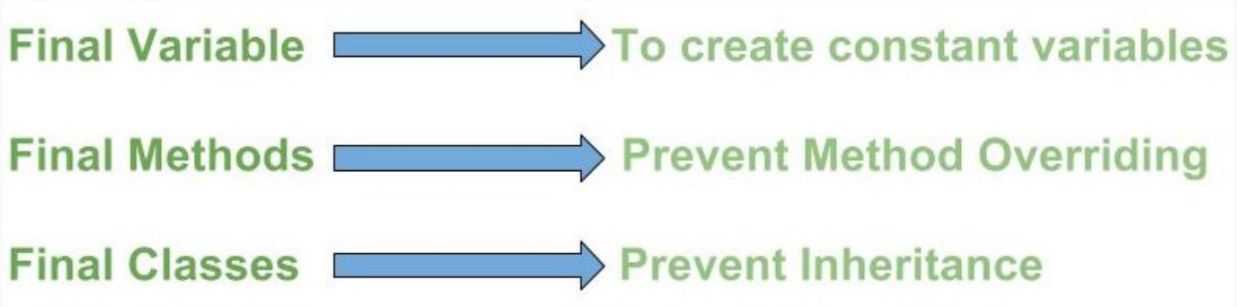
Task

Create a Class Computer that will have 4 subclasses as Apple, Lenovo, HP, Dell.

- Define common behavior within and some fields in parent class and override some of the methods in child classes
- Define some methods specific to child classes
- Create objects of child classes and store them into array. Loop through each object and execute available methods.

Final keyword

- A final keyword in java can be used with a class, with a variable and with a method.
- final keyword restricts the further modification.
- When we use final keyword with an entity (class or variable or method), it gets the meaning that entity is complete and can not be modified further.
- final is a non access modifier



Final Class

We can’t create a subclass to the final class or we can’t extend a class or we can’t modify a class which is declared as final.

```
final class FinalClass {
    //some statements
}

class SubClass extends FinalClass {
    //compile time error
    //Can't create sub class to the final class
}
```

Final method

We can't override a method or we can't modify a method in the sub class which is declared as final in the super class.

```
class SuperClass {
    final void methodOne() {
        //some statements
    }
}

class SubClass extends SuperClass {
    @Override
    void methodOne() {
        //Compile time error
        //can not override final method
    }
}
```

Final variable

The value of a final variable can not be changed once it got initialized.

```
class AnyClass {
    final int i = 10;

    void methodOne() {
        i = 20;     //compile time error
        //final field cannot be re-assigned
    }
}
```