Dynamic Method Dispatch in Java by Munawar

Dynamic Method Dispatch

Consider the following inheritance hierarchy.

Super --- > math1

--- > math2

Sub   --- > math2 Override

--- > math3

Scenario 1 ------> Super object = new Sub (). --- > Allowed

Object. Math2 () --- > 2 is called (method of object)

Object. Math3 () --- > Not allowed

Scenario 2 ------> Sub object = new Super (). --- > Not Allowed

Can be used to invoke parent class constructor.

Source Code

```java
import javax.swing.plaf.synth.SynthTextAreaUI;
import java.util.Scanner;

class Phone{
    public void name(){
        System.out.println("I am Phone class in java");
    }
    public void great(){
        System.out.println("Hello Every one good morning");
    }
```

```java
}
class SmartPhoneo extends Phone {
    public void name(){
        System.out.println("I am SmartPhone Class in java");
    }
    public void welcome(){
        System.out.println("Welcome to my notes ");
    }
}
public class Main {
    public static void main (String [] args) {

//        Phone p=new Phone();
//        SmartPhoneo sp=new SmartPhoneo();
//         p.name();
        Phone obj=new SmartPhoneo(); // It is allowed
        // SmartPhoneo objs=new Phone(); // This is not allowed
        obj.great();
        obj.name();
        // obj.welcome();      // It is not allowed because this method is
belong to SmartPhone
    }

}
```

Thank You