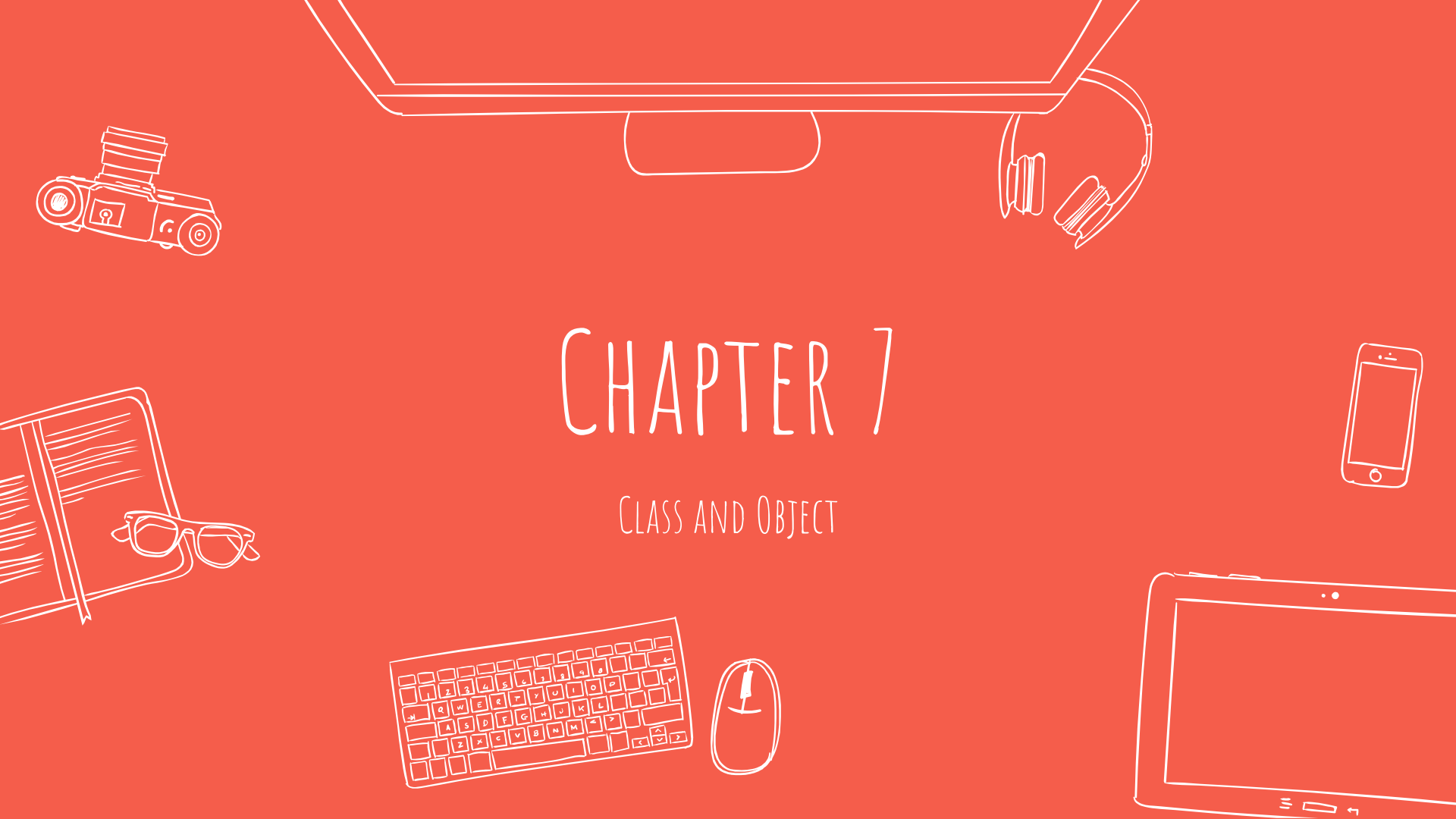


CHAPTER 7

CLASS AND OBJECT



CLASS





STUDENT

Student has following attributes

- First Name
- Last Name
- Roll Number
- Address
- Email Address



STUDENT

```
// Class name starts with Capital letter
public class Student {
    // Attribute name starts with small letter
    private String firstName;
    private String lastName;
    private int rollNumber;
    private String address;
    private String emailAddress;
    //No main method in this class
}
```



STUDENT

```
public class Student {  
    private String firstName;  
    // Public method to set first name  
    public void setFirstName(String firstName) {  
        this.firstName = firstName;  
    }  
    // Public method to get first name  
    public String getFirstName() {  
        return firstName;  
    }  
    public void printDetails() {  
        System.out.println("First name: " + firstName);  
        System.out.println("Last name: " + lastName);  
        System.out.println("Full name: " + getFullName());  
    }  
}
```



STUDENT

firstName, lastName, address are attributes or in java term they are fields

Method like printDetails is called class method.

Fields define state of object

Method defines behavior of class.



STUDENT

```
public class StudentApplication {  
    //Note: main method in this class  
    public static void main(String[] args) {  
        // Declate student1 variable with data type Student  
        Student student1;  
        // Create new student class and assign it to variable  
        student1 = new Student();  
  
        // Call Method on object  
        student1.setFirstName("Oreo");  
        student1.setLastName("Garothaya");  
  
        // Access student attributes  
        System.out.println("First name: " + student1.getFirstName());  
        System.out.println("Last name: " + student1.getLastName());  
    }  
}
```



CLASS

student1 is an *instance* of the *class* Student.
class is the blueprint from which individual objects are created.

fristName, lastName etc. represents object state, while printDetails define its behavior with the outside world.



THANKS!

Any questions?

You can find me at:

`vijay_garry@hotmail.com`

<https://github.com/vijaygarry>