

## WEEK 2

```
1  ↘ class Cat {  
2      String name;  
3      int age;  
4  
5      // Constructor  
6  ↘ Cat(String name, int age) {  
7      this.name = name;  
8      this.age = age;  
9  }  
10  
11     // Display method  
12  ↘ void display() {  
13      System.out.println("Name is : " + name);  
14      System.out.println("Age is : " + age);  
15  }  
16 }  
17  
18  ↘ class CatMain {  
19      Run | Debug | Run main | Debug main  
20      public static void main(String[] args) {  
21          Cat obj = new Cat(name: "Tommy", age: 20);  
22          obj.display();  
23      }  
24 }
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> javac CatMain.java  
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> java CatMain  
Name is : Tommy  
Age is : 20  
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> █
```

```
class Animal {
    void makeSound() {
        System.out.println("Animal makes sound");
    }
}

class Dog extends Animal {
    void makeSound() {
        System.out.println("Dog Barks");
    }
}

public class AnimalMain {
    Run | Debug | Run main | Debug main
    public static void main(String[] args) {
        Animal a = new Animal();
        Dog d = new Dog();
        a.makeSound();
        d.makeSound();
    }
}
```

```
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> javac AnimalMain.java
PS C:\Users\VLT-BNT\OneDrive\Documents\Desktop\OOP JAVA> java AnimalMain
Animal makes sound
Dog Barks
```

```
BookMain.java > Java > Book
1 class Book {
2     String title;
3     String author;
4     double price;
5
6     // Default constructor
7     Book() {
8         title = "Unknown";
9         author = "Unknown";
10        price = 0.0;
11    }
12
13     // Constructor with title and author
14     Book(String title, String author) {
15         this.title = title;
16         this.author = author;
17         this.price = 0.0;
18     }
19
20     // Constructor with title, author, and price
21     Book(String title, String author, double price) {
22         this.title = title;
23         this.author = author;
24         this.price = price;
25     }
26
27     // Method to print values
28     void display() {
29         System.out.println("Book Title: " + title);
30         System.out.println("Book Author: " + author);
31         System.out.println("Book Price: " + price);
32         System.out.println();
33     }
34
35 Run | Debug | Run main | Debug main
public static void main(String[] args) {
    Book b1 = new Book();
    Book b2 = new Book(title: "Java Programming", author: "John Doe");
    Book b3 = new Book(title: "Python Guide", author: "Alice Smith", price: 49.99);

    b1.display();
    b2.display();
    b3.display();
}
```

```
Book Title: Java Programming
Book Author: John Doe
Book Price: 0.0
```