

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     public static void main(String[] args) {
20         Cat obj = new Cat(name: "Tommy", age: 20);
21         obj.display();
22     }
23 }
```

```
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(x: "Animal makes sound");
    }
}

class Dog extends Animal {
    void makeSound() {
        System.out.println(x: "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     }

```

```

// Method to print values
void display() {
    System.out.println("Book Title: " + title);
    System.out.println("Book Author: " + author);
    System.out.println("Book Price: " + price);
    System.out.println();
}

```

```

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

```