

```

1 public class Car {
2     private String color;
3     private String plateNo;
4     private String chassisNo;
5     private String brand; // <-- ADD THIS LINE
6
7     // no argument constructor
8     public Car() {
9         this.brand = "No Brand"; // <-- ADD THIS LINE
10        this.color = "No Color";
11        this.plateNo = "No PlateNumber";
12        this.chassisNo = "No Chassis No Yet!";
13    }
14
15    // parameterized constructor
16    public Car(String brand, String color, String plateNo, String chassisNo) { // <-- ADD 'brand' PARAMETER
17        this.brand = brand; // <-- ADD THIS LINE
18        this.color = color;
19        this.plateNo = plateNo;
20        this.chassisNo = chassisNo;
21    }
22
23    //----- methods -----
24    public void displayInfo() {
25        String info = "";
26        info += "Brand: " + this.brand; // <-- ADD THIS LINE
27        info += "\nColor: " + this.color;
28        info += "\nPlateNo: " + this.plateNo;
29        info += "\nChassisNo: " + this.chassisNo;
30        System.out.println(info);
31        System.out.println(x:"-----"); // Added for better readability
32    }
33 }

```

```

1 public class CarTester {
2
3     Run | Debug
4     public static void main(String[] args) {
5
6         // Array holding the ten car names
7         String[] carBrands = {
8             "Toyota", "Ford", "Honda", "Volkswagen", "Hyundai",
9             "Tesla", "Nissan", "Chevrolet", "Mercedes-Benz", "Kia"
10        };
11
12        System.out.println(x:"Creating Car Objects...\n");
13
14        // Loop through the array of car brands
15        for (String brand : carBrands) {
16            // For each brand, create a new Car object.
17            // We are using placeholder data for color, plate, and chassis numbers.
18            Car myCar = new Car(brand, "Black", "ABC-123", "XYZ-789");
19
20            // Display the information for the newly created car
21            myCar.displayInfo();
22        }
23    }

```

```
1 public class Animalka {  
    Run | Debug  
2 public static void main(String[] args) {  
3     // 1. Create a new Bird object with the specified breed "Canary"  
4     Bird bird1 = new Bird(name:"Harry", breed:"Canary");  
5  
6     // 2. Create a second Bird object using the default constructor  
7     Bird bird2 = new Bird();  
8  
9     // 3. Print the initial details of the first bird  
10    System.out.println(bird1.getData()); // Output -> Name: Tweety, Breed: Canary  
11  
12    // 4. Set the name and breed for the second bird  
13    bird2.setName(name:"Mike");  
14    bird2.setBreed(breed:"Lovebird");  
15  
16    // 5. Print the details of the second bird after modifying it  
17    System.out.println(bird2.getData()); // Output -> Name: Zazu, Breed: Hornbill  
18 }  
19 }
```

```

1 public class Bird {
2     // Attributes (instance variables)
3     private String name;
4     private String breed;
5
6     /**
7      * Constructor to create a bird with a specific name and breed.
8      */
9     public Bird(String name, String breed) {
10         this.name = name;
11         this.breed = breed;
12     }
13
14     /**
15      * Default constructor for creating a bird without initial values.
16      */
17     public Bird() {
18         // Initializes with default null values
19     }
20
21     /**
22      * Gets the bird's name. (Getter)
23      * @return the name of the bird
24      */
25     public String getName() {
26         return name;
27     }
28

```

```

28
29     /**
30      * Sets or changes the bird's name. (Setter)
31      * @param name the new name for the bird
32      */
33     public void setName(String name) {
34         this.name = name;
35     }
36
37     /**
38      * Gets the bird's breed. (Getter)
39      * @return the breed of the bird
40      */
41     public String getBreed() {
42         return breed;
43     }
44
45     /**
46      * Sets or changes the bird's breed. (Setter)
47      * @param breed the new breed for the bird
48      */
49     public void setBreed(String breed) {
50         this.breed = breed;
51     }
52
53     /**
54      * Returns a string with all the bird's data.
55      * @return formatted string of the bird's details
56      */
57     public String getData() {
58         return "Name: " + this.name + ", Breed: " + this.breed;
59     }
60 }

```