

Enum

1. Challenge: Define an enum for days of the week

Code:

```
enum Day {  
    MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,  
    SATURDAY, SUNDAY  
}
```

```
public class EnumDemo1 {  
    public static void main(String[] args) {  
        Day today = Day.MONDAY;  
        System.out.println("Today is: " + today);  
    }  
}
```

Output:

Today is: MONDAY

2. Challenge: Use enum in switch case

Code:

```
enum Day {  
    MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,  
    SATURDAY, SUNDAY  
}
```

```
public class EnumDemo2 {  
    public static void main(String[] args) {  
        Day today = Day.FRIDAY;  
  
        switch (today) {  
            case MONDAY:  
                System.out.println("Start of the work week!");  
                break;  
            case FRIDAY:  
                System.out.println("Weekend is coming!");  
                break;  
        }
```

```

        case SUNDAY:
            System.out.println("Relax, it's Sunday.");
            break;
        default:
            System.out.println("Regular weekday.");
    }
}
}

```

Output:

Weekend is coming!

3. Challenge: Iterate over enum values

Code:

```

enum Day {
    MONDAY, TUESDAY, WEDNESDAY, THURSDAY, FRIDAY,
    SATURDAY, SUNDAY
}

public class EnumDemo3 {
    public static void main(String[] args) {
        for (Day d : Day.values()) {
            System.out.println(d);
        }
    }
}

```

Output:

MONDAY
 TUESDAY
 WEDNESDAY
 THURSDAY
 FRIDAY
 SATURDAY
 SUNDAY

4. Challenge: Assign properties to enum constants

Code:

```

enum Day {

```

```
    MONDAY("Weekday"), SATURDAY("Weekend"),  
    SUNDAY("Weekend");
```

```
    private String type;
```

```
    Day(String type) {  
        this.type = type;  
    }
```

```
    public String getType() {  
        return type;  
    }  
}
```

```
public class EnumDemo4 {  
    public static void main(String[] args) {  
        Day d = Day.SATURDAY;  
        System.out.println(d + " is a " + d.getType());  
    }  
}
```

Output:

SATURDAY is a Weekend

5. Challenge: Create an enum to represent traffic light states

Code:

```
enum TrafficLight {  
    RED("Stop"), GREEN("Go"), YELLOW("Wait");
```

```
    private String action;
```

```
    TrafficLight(String action) {  
        this.action = action;  
    }
```

```
    public String getAction() {  
        return action;  
    }
```

```
}  
  
public class EnumDemo5 {  
    public static void main(String[] args) {  
        for (TrafficLight light : TrafficLight.values()) {  
            System.out.println(light + " means " + light.getAction());  
        }  
    }  
}
```

Output:

RED means Stop

GREEN means Go

YELLOW means Wait