**EnumDemo.java**

/\*\*

This program demonstrates an enumerated type.

\*/

public class EnumDemo

{

// Declare the Day enumerated type.

enum Day { SUNDAY, MONDAY, TUESDAY, WEDNESDAY,

THURSDAY, FRIDAY, SATURDAY }

public static void main(String[] args)

{

// Declare a Day variable and assign it a value.

Day workDay = Day.WEDNESDAY;

// The following statement displays WEDNESDAY.

System.out.println(workDay);

// The following statement displays the ordinal

// value for Day.SUNDAY, which is 0.

System.out.println("The ordinal value for " +

Day.SUNDAY + " is " +

Day.SUNDAY.ordinal());

// The following statement displays the ordinal

// value for Day.SATURDAY, which is 6.

System.out.println("The ordinal value for " +

Day.SATURDAY + " is " +

Day.SATURDAY.ordinal());

// The following statement compares two enum constants.

if (Day.FRIDAY.**compareTo**(Day.MONDAY) > 0)

System.out.println(Day.FRIDAY + " is greater than " +

Day.MONDAY);

else

System.out.println(Day.FRIDAY + " is NOT greater than " +

Day.MONDAY);

}

}

**CarType.java**

/\*\*

CarType enumerated data type

\*/

enum CarType { PORSCHE, FERRARI, JAGUAR }

**CarColor.java**

/\*\*

CarColor enumerated data type

\*/

enum CarColor { RED, BLACK, BLUE, SILVER }

**SportsCar.java**

/\*\*

SportsCar class

\*/

public class SportsCar

{

private CarType make; // The car's make

private CarColor color; // The car's color

private double price; // The car's price

/\*\*

The constructor initializes the car's make,

color, and price.

@param aMake The car's make.

@param aColor The car's color.

@param aPrice The car's price.

\*/

public SportsCar(CarType make, CarColor color, double price)

{

this.make = make;

this.color = color;

this.price = price;

}

/\*\*

getMake method

@return The car's make.

\*/

public CarType getMake()

{

return make;

}

/\*\*

getColor method

@return The car's color.

\*/

public CarColor getColor()

{

return color;

}

/\*\*

getPrice method

@return The car's price.

\*/

public double getPrice()

{

return price;

}

/\*\*

toString method

@return A string indicating the car's make,

color, and price.

\*/

public String toString()

{

// Create a string representing the object.

String str = String.format("Make: %s\nColor: %s\nPrice: $%,.2f",

make, color, price);

// Return the string.

return str;

}

}

**SportsCarDemo.java**

/\*\*

This program demonstrates the SportsCar class.

\*/

public class SportsCarDemo

{

public static void main(String[] args)

{

// Create a SportsCar object.

SportsCar yourNewCar =

new SportsCar(CarType.PORSCHE, CarColor.RED, 100000);

// Display the object's values.

System.out.println(yourNewCar);

}

}

**SportsCarDemo2.java**

/\*\*

This program shows that you can switch on an

enumerated type.

\*/

public class SportsCarDemo2

{

public static void main(String[] args)

{

// Create a SportsCar object.

SportsCar yourNewCar = new SportsCar(CarType.PORSCHE,

CarColor.RED, 100000);

// Get the car make and switch on it.

switch (yourNewCar.getMake())

{

case PORSCHE :

System.out.println("Your car was made in Germany.");

break;

case FERRARI :

System.out.println("Your car was made in Italy.");

break;

case JAGUAR :

System.out.println("Your car was made in England.");

break;

default:

System.out.println("I'm not sure where that car " +

"was made.");

}

}

}