```
1) Code
import java.awt.Color;
public class JavaBank {
  public static final Color COMPANY_COLOR = new Color(173, 216, 230);
  public static void main(String[] args) {
    RoadBike bike1 = new RoadBike();
    MountainBike bike2 = new MountainBike();
    bike1.setHandleBars("Drop");
    bike1.setTyreWidth("23mm");
    bike1.setPostHeight("22");
    bike1.setPostHeight("20");
    System.out.println("Bike1 Make: " + RoadBike.MAKE);
    System.out.println("Bike1 HandleBars: " + bike1.getHandleBars());
    System.out.println("Bike1 Tyre Width: " + bike1.getTyreWidth());
    System.out.println("Bike1 Post Height: " + bike1.getPostHeight());
  }
}
interface BikeParts {
  String MAKE = "Oracle Bikes";
  String getHandleBars();
  void setHandleBars(String newValue);
  String getTyres();
  void setTyres(String newValue);
  String getSeatType();
  void setSeatType(String newValue);
}
```

```
interface MountainParts {
  String TERRAIN = "off_road";
  String getSuspension();
  void setSuspension(String newValue);
  String getType();
  void setType(String newValue);
}
// Interface defining road bike parts
interface RoadParts {
  String TERRAIN = "track_racing"; // Constant declaration
  String getTyreWidth();
  void setTyreWidth(String newValue);
  String getPostHeight();
  void setPostHeight(String newValue);
}
// Base Bike class implementing BikeParts
class Bike implements BikeParts {
  private String handleBars;
  private String tyres;
  private String seatType;
  @Override
  public String getHandleBars() {
    return handleBars;
  }
```

```
@Override
  public void setHandleBars(String newValue) {
    this.handleBars = newValue;
  }
  @Override
  public String getTyres() {
    return tyres;
  }
  @Override
  public void setTyres(String newValue) {
    this.tyres = newValue;
  }
  @Override
  public String getSeatType() {
    return seatType;
  }
  @Override
  public void setSeatType(String newValue) {
    this.seatType = newValue;
  }
}
// MountainBike class implementing MountainParts
class MountainBike extends Bike implements MountainParts {
  private String suspension;
  private String type;
```

```
@Override
  public String getSuspension() {
    return suspension;
  }
  @Override
  public void setSuspension(String newValue) {
    this.suspension = newValue;
  }
  @Override
  public String getType() {
    return type;
  }
  @Override
  public void setType(String newValue) {
    this.type = newValue;
  }
// RoadBike class implementing RoadParts
class RoadBike extends Bike implements RoadParts {
  private String tyreWidth;
  private String postHeight;
  @Override
  public String getTyreWidth() {
    return tyreWidth;
  }
```

}

```
@Override
public void setTyreWidth(String newValue) {
    this.tyreWidth = newValue;
}

@Override
public String getPostHeight() {
    return postHeight;
}

@Override
public void setPostHeight(String newValue) {
    this.postHeight = newValue;
}
```