NAME : G VISHNU VARDHAN

192365027

```
ackage interfacePractice;
interface BikeParts {
    String MAKE = "Oracle Bikes";
     String getHandleBars();
     void setHandleBars(String newValue);
     String getTyres();
    String getSeatType();
interface MountainParts {
   String TERRAIN = "off_road";
   String getSuspension();
   void setSuspension(String newValue);
     String getType();
interface RoadParts {
   String TERRAIN = "track_racing";
    String getTyreWidth();
void setTyreWidth(String newValue);
String getPostHeight();
private String handleBars;
    private String tyres;
private String seatType;
     @Override
     public String getHandleBars() {
         return handleBars;
    @Override
    public void setHandleBars(String newValue) {
         this.handleBars = newValue;
    public String getTyres() {
   return tyres;
    public void setTyres(String newValue) {
    public String getSeatType() {
         return seatType;
```

```
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;
ass 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;
blic class BikeDriver {
 public static void main(String[] args) {
      Bike bike = new Bike();
```

```
RoadBike roadBike = new RoadBike();

bike.setHandleBars("Drop Bars");
bike.setSeatType("Comfortable Seat");

mountainBike.setHandleBars("Flat Bars");
mountainBike.setSeatType("Racing Seat");
mountainBike.setSuspension("Full Suspension");
mountainBike.setSuspension("Full Suspension");
mountainBike.setType("Trail Bike");

roadBike.setHandleBars("Drop Bars");
roadBike.setType("Thin Tyres");
roadBike.setSeatType("Comfortable Seat");
roadBike.setSeatType("Comfortable Seat");
roadBike.setPostHeight("23mm");
roadBike.setPostHeight("22");
System.out.println("Initial RoadBike Post Height: " + roadBike.getPostHeight());
roadBike.setPostHeight("20");
System.out.println("Updated RoadBike Post Height: " + roadBike.getPostHeight());
}
```

<terminated > BikeDriver [Java Application] C:\Users\harin\.p2\po

Initial RoadBike Post Height: 22 Updated RoadBike Post Height: 20