```
10// Harini. R 192324108
  2 //JP section-2 question-1
  3 package interfacePractice;
  5 interface BikeParts {
         String MAKE = "Oracle Bikes";
         String getHandleBars();
         void setHandleBars(String newValue);
         String getTyres();
         void setTyres(String newValue);
 11
         String getSeatType();
 12
         void setSeatType(String newValue);
 13 }
 14 interface MountainParts {
 15
         String TERRAIN = "off road";
         String getSuspension();
 17
         void setSuspension(String newValue);
 18
         String getType();
 19
         void setType(String newValue);
 20 }
 21 interface RoadParts {
 22
         String TERRAIN = "track racing";
 23
         String getTyreWidth();
         void setTyreWidth(String newValue);
 25
         String getPostHeight();
         void setPostHeight(String newValue);
 27 }
 28 class Bike implements BikeParts {
 29
         private String handleBars;
         private String tyres;
         private String seatType;
 32
 330
         @Override
         public String getHandleBars() {
▲ 34
             return handleBars;
         }
 37
  38e
         @Override
```

```
this.handleBars = newValue;
  41
         }
  42
  430
         @Override
         public String getTyres() {
44
  45
             return tyres;
         }
  47
         @Override
  489
         public void setTyres(String newValue) {
             this.tyres = newValue;
         }
  52
  53€
         @Override
         public String getSeatType() {
54.
  55
             return seatType;
         }
  58e
         @Override
         public void setSeatType(String newValue) {
             this.seatType = newValue;
  61
         }
  62 }
  63 class MountainBike extends Bike implements MountainParts {
         private String suspension;
  65
         private String type;
  67e
         @Override
68
         public String getSuspension() {
             return suspension;
  70
         }
  71
  720
         @Override
★ 73
         public void setSuspension(String newValue) {
  74
             this.suspension = newValue;
  75
         }
  76
```

public void setHandleBars(String newValue) {

```
779
         @Override
         public String getType() {
→ 78
  79
             return type;
         }
  81
  82e
         @Override
         public void setType(String newValue) {
83
             this.type = newValue;
  84
  85
 86 }
  87 class RoadBike extends Bike implements RoadParts {
         private String tyreWidth;
         private String postHeight;
         @Override
  910
         public String getTyreWidth() {
92
             return tyreWidth;
         }
  95
         @Override
  969
         public void setTyreWidth(String newValue) {
             this.tyreWidth = newValue;
         }
         @Override
 101€
         public String getPostHeight() {
102
 103
             return postHeight;
         }
 105
 106€
         @Override
         public void setPostHeight(String newValue) {
-107
             this.postHeight = newValue;
 109
         }
110 }
111 public class BikeDriver {
 1120
         public static void main(String[] args) {
             Bike bike = new Bike();
 113
             MountainBike mountainBike = new MountainBike();
 114
```

```
115
            RoadBike roadBike = new RoadBike();
116
117
            bike.setHandleBars("Drop Bars");
            bike.setTyres("Mountain Tyres");
118
119
            bike.setSeatType("Comfortable Seat");
120
121
            mountainBike.setHandleBars("Flat Bars");
122
            mountainBike.setTyres("Knobby Tyres");
            mountainBike.setSeatType("Racing Seat");
123
124
            mountainBike.setSuspension("Full Suspension");
            mountainBike.setType("Trail Bike");
125
126
            roadBike.setHandleBars("Drop Bars");
127
128
            roadBike.setTyres("Thin Tyres");
            roadBike.setSeatType("Comfortable Seat");
129
            roadBike.setTyreWidth("23mm");
130
            roadBike.setPostHeight("22");
131
132
            System.out.println("Initial RoadBike Post Height: " + roadBike.getPostHeight());
133
            roadBike.setPostHeight("20");
            System.out.println("Updated RoadBike Post Height: " + roadBike.getPostHeight());
134
135
136 }
137
```

🕍 Problems 🏿 avadoc 🚇 Declaration 📮 Console 🗡 🖹 Coverage 🤻 Error Log <terminated > BikeDriver [Java Application] C:\Users\harin\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86\_64\_22.0.1.v202404 Initial RoadBike Post Height: 22

Updated RoadBike Post Height: 20