|  |
| --- |
| package vandana.projects.com; |
|  |  |
|  | public class Oops\_inheritance { |
|  |  |
|  | public static void main(String[] args) { |
|  |  |
|  | MountainBike mb = new MountainBike(3, 150, 23); |
|  | System.out.println(mb.toString()); |
|  |  |
|  | } |
|  |  |
|  | } |
|  |  |
|  |  |
|  | class Bicycle |
|  | { |
|  | public int gear; |
|  | public int speed; |
|  | public Bicycle(int gear, int speed) |
|  | { |
|  | this.gear = gear; |
|  | this.speed = speed; |
|  | } |
|  | public void applyBrake(int decrement) |
|  | { |
|  | speed -= decrement; |
|  | } |
|  | public void speedUp(int increment) |
|  | { |
|  | speed += increment; |
|  | } |
|  | public String toString() |
|  | { |
|  | return("No of gears are " + gear + "\n" + "speed of bicycle is " + speed); |
|  | } |
|  | } |
|  | class MountainBike extends Bicycle |
|  | { |
|  | public int seatHeight; |
|  | public MountainBike(int gear,int speed,int startHeight) |
|  | { |
|  | super(gear, speed); |
|  | seatHeight = startHeight; |
|  | } |
|  | public void setHeight(int newValue) |
|  | { |
|  | seatHeight = newValue; |
|  | } |
|  | @Override |
|  | public String toString() |
|  | { |
|  | return (super.toString()+ |
|  | "\nseat height is "+seatHeight); |
|  | } |
|  | } |