Quiz #08 Interface (27/04/2023)

2. จงทำการเขียน UML Class จากโปรแกรมที่กำหนดมาให้พร้อมทั้งเขียนโปรแกรมสำหรับใช้ในการทดสอบ

```
class Taxi extends Vehicle implements Passenger {
 public int speed = 0;   public int gear = 0;
 public String howToPayMoney(){
  String text = "Taxi : Check the distances and cost from the meter. Pay money";
  return text;  }
 public void changeGear(int newGear){
  gear = newGear;  }
 public void speedUp(int increment){
  speed = speed + increment;  }
 public void applyBrakes(int decrement){
  speed = speed - decrement;  }
}
```

```
class Bicycle extends Bike {
 public void printStates() {
  System.out.println("speed: " + speed + " gear: " +
gear);  }
}
```

```
public interface Passenger{
 public String howToPayMoney();
}
```

```
class Bike extends Vehicle implements Passenger {
 public int speed = 0;   public int gear = 0;
 public void changeGear(int newGear){
  gear = newGear;  }
 public void speedUp(int increment){
  speed = speed + increment;  }
 public void applyBrakes(int decrement){
  speed = speed - decrement;  }
}
```

```
public abstract Vehicle {
   public abstract void changeGear(int a);
   public abstract void speedUp(int a);
   public void applyBrakes(int a);
}
```

```
public class Quiz10 {
 public static void main(String[] args) {

 Taxi x = new Taxi();

 Bike y = new Bike();

 Bicycle z = new Bicycle();

 System.out.println (t.howToPayMoney());
 c.printStates();
 }
}
```

UML Class

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