Taylar Conway

**OO Challenge**

**PART ONE**

class Vehicle {

constructor(*make*, *model*, *year*) {

*this*.make = *make*;

*this*.model = *model*;

*this*.year = *year*;

}

honk() {

return "Beep.";

}

toString() {

return `The vehicle is a ${*this*.make} ${*this*.model} from ${*this*.year}.`;

}

}

**PART TWO**

class Car extends *Vehicle* {

constructor(*make*, *model*, *year*) {

*super*(*make*, *model*, *year*);

*this*.numWheels = 4;

}

}

**PART THREE**

class Motorcycle extends *Vehicle* {

constructor(*make*, *model*, *year*) {

*super*(*make*, *model*, *year*);

*this*.numWheels = 2;

}

revEngine() {

return "VROOM!!!";

}

}

**PART FOUR**

class Garage {

constructor(*capacity*) {

*this*.vehicles = [];

*this*.capacity = *capacity*;

}

add(*newVehicle*) {

if (!(*newVehicle* instanceof *Vehicle*)) {

return "Only vehicles are allowed in here!";

}

if (*this*.vehicles.length >= *this*.capacity) {

return "Sorry, we're full.";

}

*this*.vehicles.push(*newVehicle*);

return "Vehicle added!";

}

}