



CLASS NAME: OBJECT ORIENTED

PROGRAMMING

LASCANO

NRC: 14575

TOPIC: *Inheritance_Other_language*

TEACHER: EDISON

HOMEWORK #: 13

Programming Language: Ruby

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PARENT CLASS

```
VehicleComponent.rb > ...
1  # vehicle_component.rb
2  class VehicleComponent
3    attr_accessor :brand
4
5    def initialize(brand)
6      @brand = brand
7    end
8
9    def to_s
10     "Vehicle Component: #{brand}"
11   end
12
13   def start
14     puts "#{brand} component is starting."
15   end
16
17   def stop
18     puts "#{brand} component is stopping."
19   end
20 end
21
```

CHILDREN CLASSES

```
Engine.rb > ...
1  # engine.rb
2  require_relative 'vehicle_component'
3
4  class Engine < VehicleComponent
5
6    attr_accessor :brand
7
8    def initialize(brand)
9      @brand = brand
10    end
11
12    def to_s
13      "Engine: #{brand}"
14    end
15
16    def start
17      puts "Engine is on"
18    end
19
20    def turn_off
21      puts "Engine is off"
22    end
23  end
24
```

```
Tire.rb > ...  
1 # tire.rb  
2 require_relative 'vehicle_component'  
3  
4 class Tire < VehicleComponent  
5   attr_accessor :diameter, :brand  
6  
7   def initialize(diameter, brand)  
8     @diameter = diameter  
9     @brand = brand  
10  end  
11  
12  def to_s  
13    "#{brand} - Diameter: #{diameter}"  
14  end  
15  
16  def inflate  
17    puts "tire is inflated"  
18  end  
19  
20  def deflate  
21    puts "tire is deflate"  
22  end  
23 end  
24
```