

Professor Isaac

Programação Orientada a Objetos

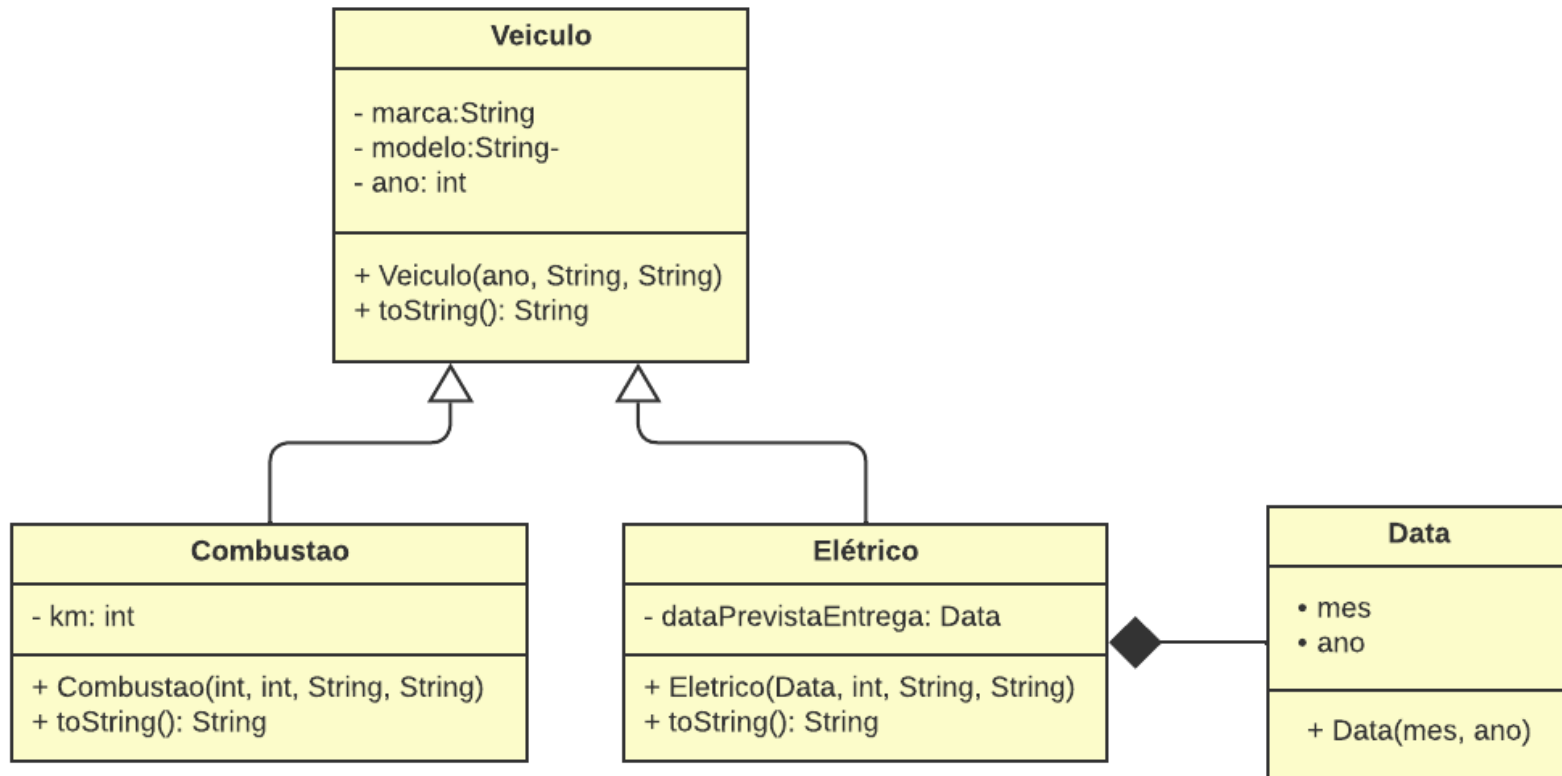
centro
universitário



Prova

Prova – Diagrama de Classes

- ❑ Crie as classes conforme apresentado:



- Crie os métodos getters e setters que forem necessários.
- Crie os métodos e atributos da Classe Data.

GUI – Crie a interface abaixo

A GUI window with a title bar containing a small icon and standard window controls (minimize, maximize, close). The main content area is a light gray panel. At the top, there are three input fields: 'Marca:' (with a blue border), 'Modelo:', and 'Ano:'. Below these, there are two side-by-side panels. The left panel is titled 'Elétrico' and contains a label 'Data Prevista de Entrega:' followed by 'Mês:' and 'Ano:' labels, each with a corresponding input field. Below these fields is a 'Cadastrar' button. The right panel is titled 'Combustao' and contains a 'KM:' label with a corresponding input field and a 'Cadastrar' button. At the bottom of the main panel, there are two buttons: 'Listar' and 'Limpar'. Below the main panel is a large white rectangular area, likely a list or output display, with a vertical scrollbar on the right side.

Marca:

Modelo:

Ano:

Elétrico

Data Prevista de Entrega:

Mês: Ano:

Cadastrar

Combustao

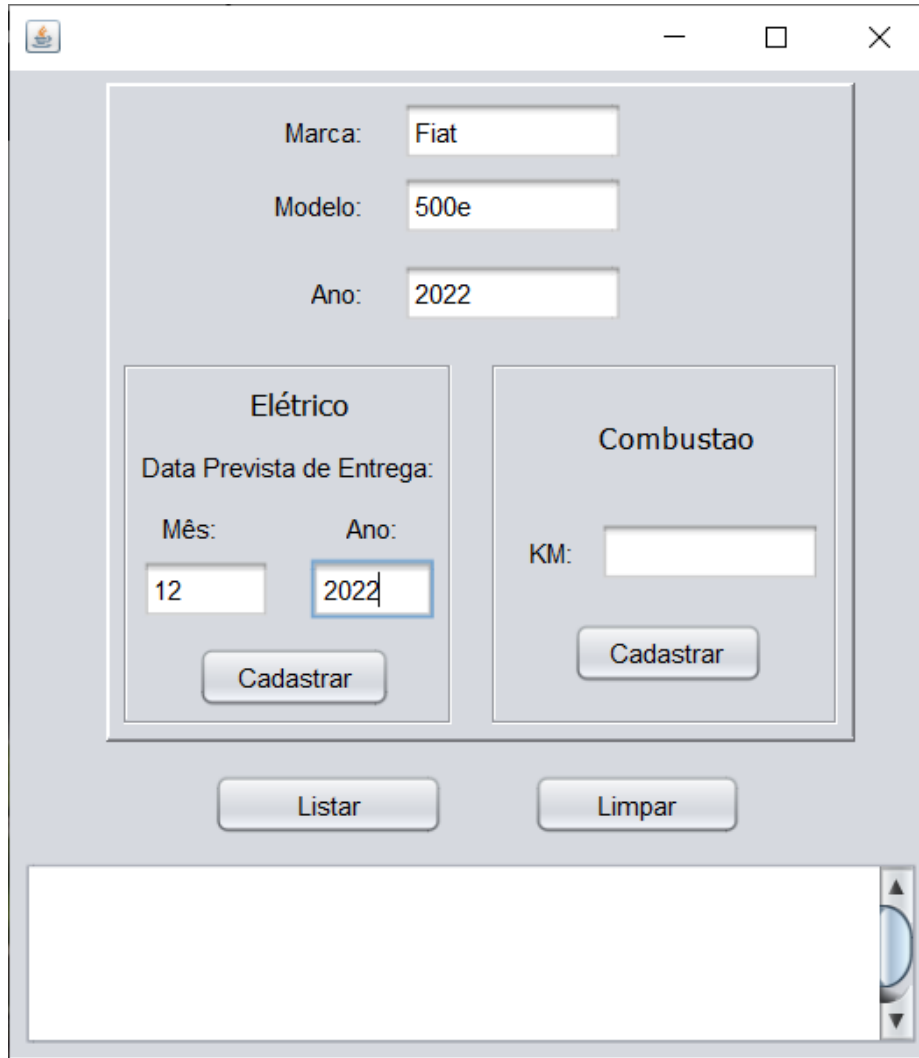
KM:

Cadastrar

Listar

Limpar

GUI – Inserir Carro Elétrico



The main GUI window has a title bar with a small icon and standard window controls. It contains two main sections: 'Elétrico' and 'Combustao'. The 'Elétrico' section has a 'Data Prevista de Entrega:' label, with 'Mês:' (12) and 'Ano:' (2022) input fields, and a 'Cadastrar' button. The 'Combustao' section has a 'KM:' input field and a 'Cadastrar' button. At the bottom, there are 'Listar' and 'Limpar' buttons, and a large empty text area.

Marca:

Modelo:

Ano:

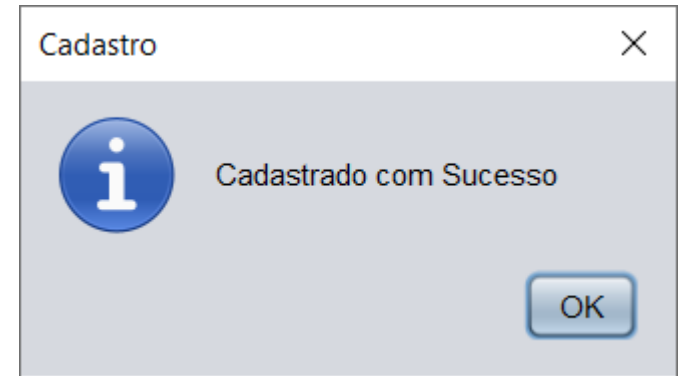
Elétrico

Data Prevista de Entrega:

Mês: Ano:


Combustao

KM:



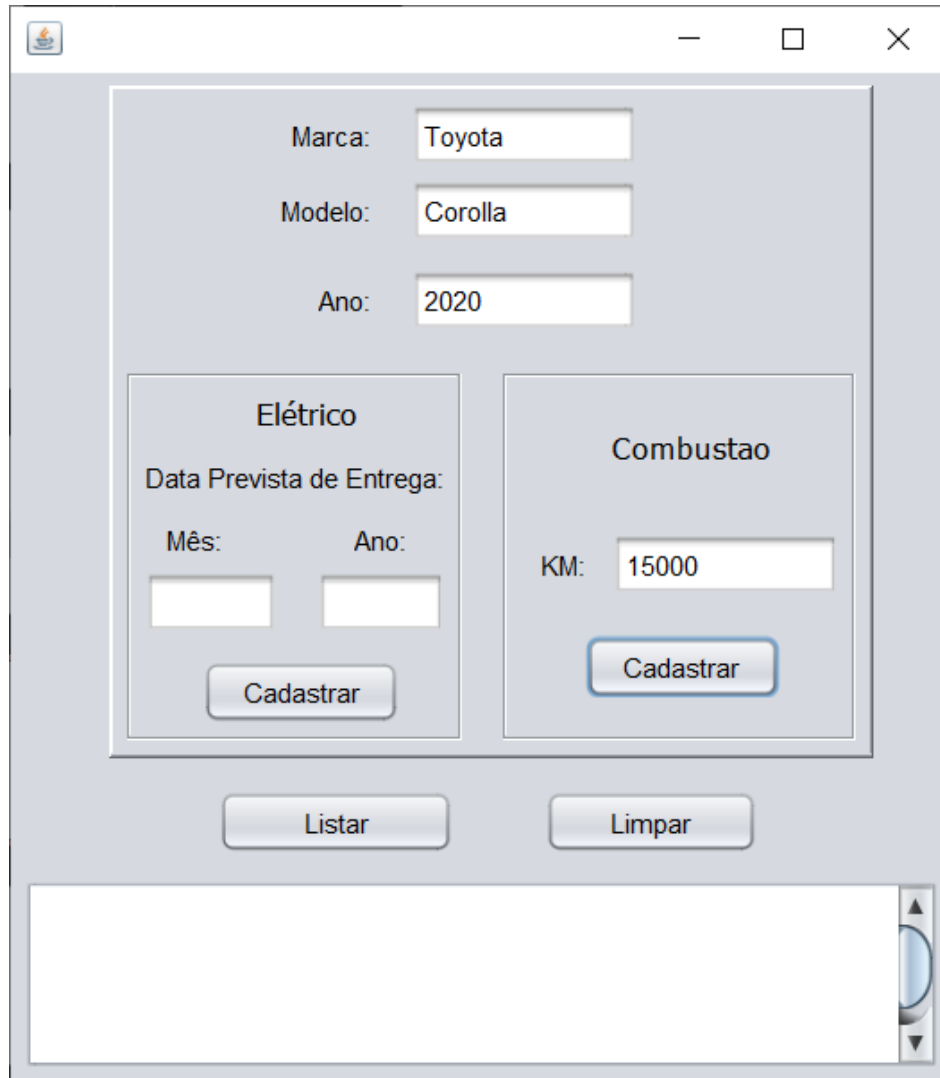
A small dialog box titled 'Cadastro' with a close button. It features a blue information icon and the text 'Cadastrado com Sucesso'. An 'OK' button is at the bottom right.

Cadastro

 Cadastrado com Sucesso

Insira o objeto da Classe Eletrico em um ArrayList
(use o mesmo arrayList para a classe Eletrico e a classe Combustao)

GUI – Inserir Carro a Combustão



The main GUI window has a title bar with a standard icon and window controls. It contains two main input sections. The top section has three text boxes labeled 'Marca:', 'Modelo:', and 'Ano:' with values 'Toyota', 'Corolla', and '2020' respectively. Below these are two side-by-side panels. The left panel is titled 'Elétrico' and contains a label 'Data Prevista de Entrega:' followed by 'Mês:' and 'Ano:' with empty text boxes. The right panel is titled 'Combustao' and contains a label 'KM:' followed by a text box with the value '15000'. Each panel has a 'Cadastrar' button. At the bottom of the window are two buttons labeled 'Listar' and 'Limpar', and a large empty text area with a scrollbar.

Marca: Toyota

Modelo: Corolla

Ano: 2020

Elétrico

Data Prevista de Entrega:

Mês: Ano:

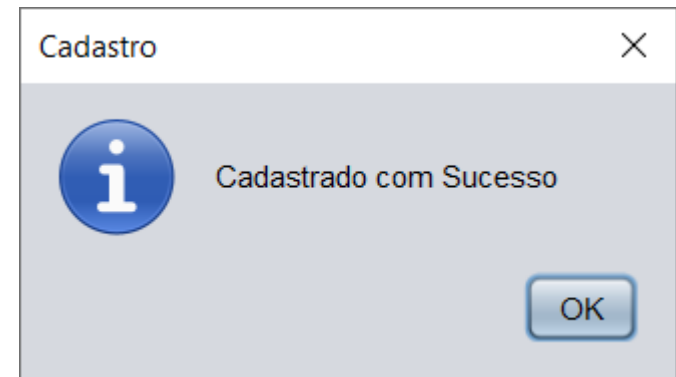
Cadastrar

Combustao

KM: 15000

Cadastrar

Listar Limpar



A small dialog box titled 'Cadastro' with a close button. It features a blue circular icon with a white 'i' (information) and the text 'Cadastrado com Sucesso'. There is an 'OK' button at the bottom right.

Cadastro

Cadastrado com Sucesso

OK

Insira o objeto da Classe Combustao em um ArrayList
(use o mesmo arrayList para a classe Eletrico e a classe Combustao)

GUI – Listar carros cadastrados



Marca:

Modelo:

Ano:

Elétrico

Data Prevista de Entrega:

Mês: Ano:

Cadastrar

Combustao

KM:

Cadastrar

Listar Limpar

Elétrico: Fiat 500e com data Prevista de Entrega=12/2022
Combustão: Toyota Corolla ano=2020 km=15000
Combustão: GM onix ano=2022 km=0
Elétrico: BMW i3 com data Prevista de Entrega=10/2022

Formate o texto exatamente igual ao apresentado na GUI acima.

GUI – Limpar

The image shows a graphical user interface (GUI) window with a title bar containing a small icon and standard window controls (minimize, maximize, close). The main content area is a light gray panel with a white border. Inside this panel, there are two main sections for data entry:

- Top Section:** Three text labels ("Marca:", "Modelo:", "Ano:") are aligned to the left, each followed by a white rectangular text input field.
- Bottom Section:** This section is divided into two columns by a vertical line.
 - Left Column (Elétrico):** Has a title "Elétrico" at the top. Below it is the label "Data Prevista de Entrega:". Under this label are two sub-labels, "Mês:" and "Ano:", each followed by a small white rectangular input field. At the bottom of this column is a rounded rectangular button labeled "Cadastrar".
 - Right Column (Combustao):** Has a title "Combustao" at the top. Below it is the label "KM:" followed by a white rectangular input field. At the bottom of this column is a rounded rectangular button labeled "Cadastrar".

Below the two columns, there are two more rounded rectangular buttons: "Listar" on the left and "Limpar" on the right. The "Limpar" button is highlighted with a blue border. At the very bottom of the window is a large white rectangular area, likely a list or output display, with a vertical scrollbar on its right side.

Limpar todos os campos da GUI com o botão limpar.

Prova - Especificações

❑ O que deve ser entregue no Moodle:

- ❖ Todos os **códigos fontes** do projeto.
- ❖ Um executável do seu projeto (**.jar**) (gere no final).

Sem o executável **.jar** será descontado 2 pontos na prova.

Não será aceito a prova após o termino da aula, portanto gerencie seu tempo, o Moodle não aceitará envios fora do prazo.