

**ARTIFICIAL INTELLIGENCE  
PROJECT**

# **CAR CHOOSE**



**Find your perfect car with us**



**KHOLUD ANDARGIRI | 441000219**

**ARWA ALAFIFI | 441000983**

**ROLA ALMADANI | 441008941**

**SARA ALSULMI | 439010628**

**OHUD BUKHARI | 441005142**

# TASKS TABLE

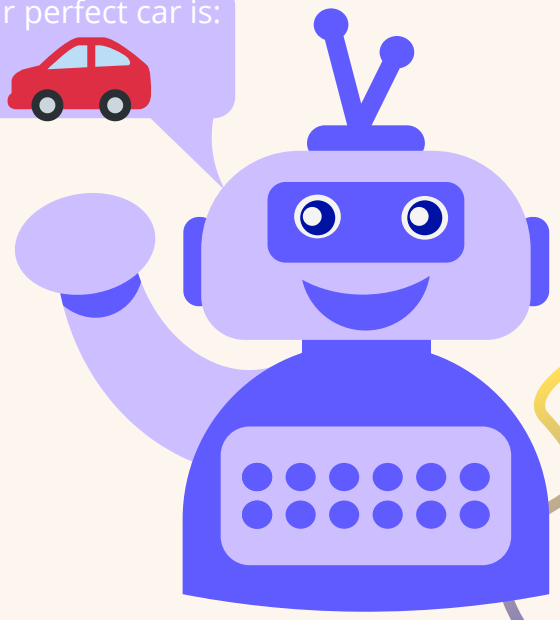
Tasks	khulod	Arwa	Rola	Sara	Ohud
Leader					
Report					
Model program					
Facts					
Rules	landcrozer mazdasix	correla rengerrover	mustang jeep	patrol innova	mercedes sonata
Questions					
Code					

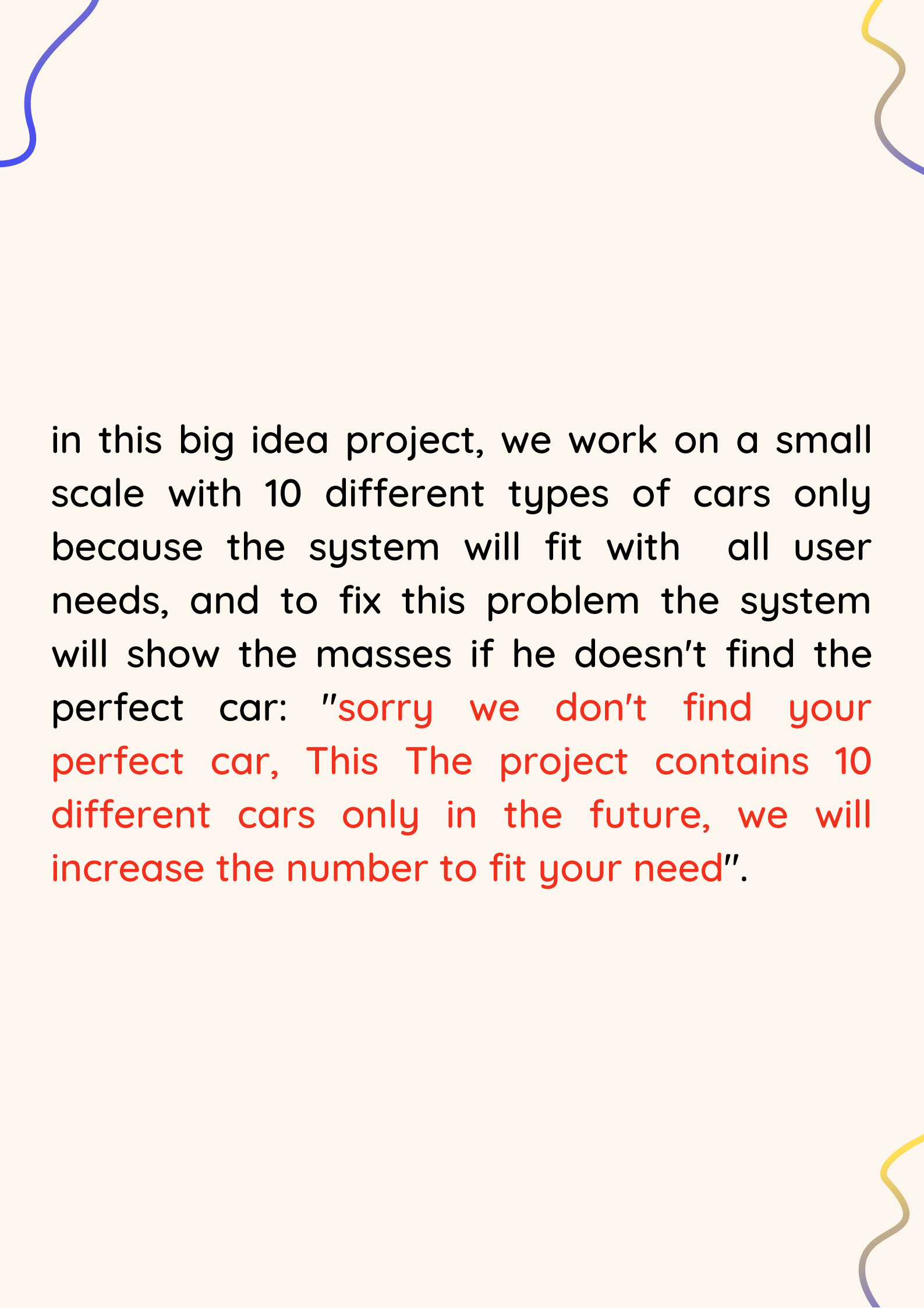
# ABOUT OUR PROJECT

The main idea of our project is to build an expert system to help anyone who wants to buy a car to decide on the perfect car for his/her need, based on 6 questions we suggested :

- What is your social status?
- What is your usual country weather like?
- What kind of Road do you go through every day?
- What is your job?
- What is your range budget?
- Do you want your car for normal use or investment?

Your perfect car is:



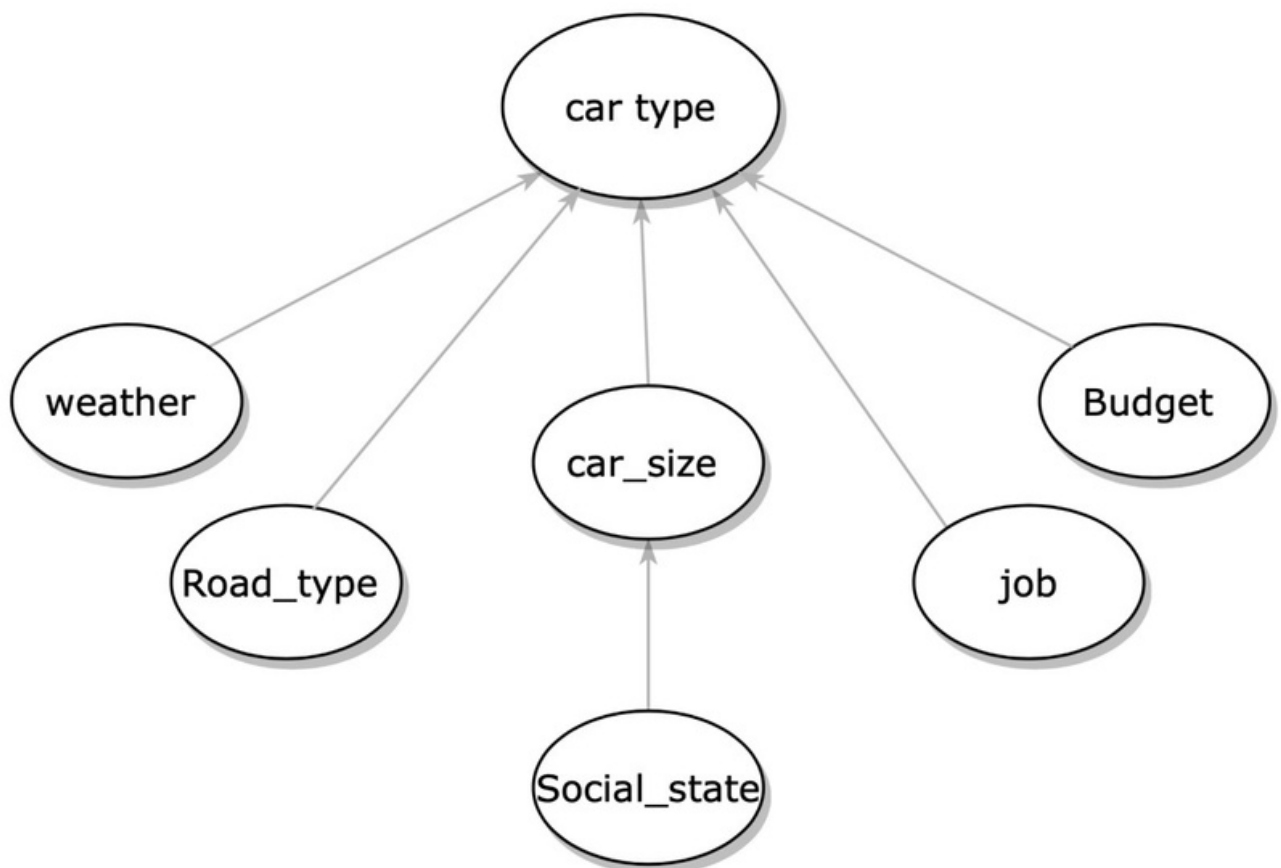


in this big idea project, we work on a small scale with 10 different types of cars only because the system will fit with all user needs, and to fix this problem the system will show the masses if he doesn't find the perfect car: "sorry we don't find your perfect car, This The project contains 10 different cars only in the future, we will increase the number to fit your need".

# THE SEQUENCE OF THE PROGRAM



# GRAPH



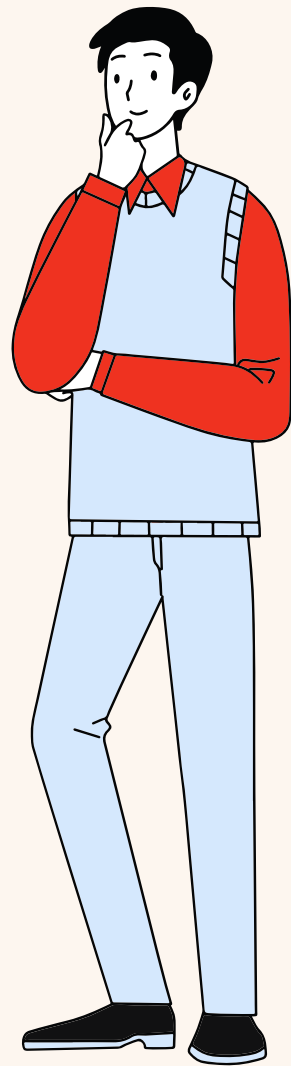
# QUESTIONS AND ANSWERS TABLE

Car type	What is your social status?	what car size do you want?	What is your Usual country weather?	What kind of Road do you go through every day?	What is your job ?	What is your rang budget ?	do you want your car?
landcrozer	married	big	hot	mountainous	freework	morehundredthousand	normaluse
mazdasix	single	small	hot	highways	freework	morehundredthousand	normaluse
correla	single	small	hot	highways	freework	lesshundredthousand	normaluse
rengerover	married	big	hot	mountainous	government_employee	morehundredthousand	invensment
sonata	single	small	hot	highways	government_employee	lesshundredthousand	normaluse
mercedes	single	small	moderat	highways	government_employee	morehundredthousand	invensment
mustang	single	small	moderat	highways	freework	morehundredthousand	invensment
jeep	married	big	moderat	mountainous	freework	morehundredthousand	invensment
innova	married	big	hot	highways	government_employee	lesshundredthousand	normaluse
patrol	married	big	moderat	highways	government_employee	morehundredthousand	normaluse

# FACTS

```
2 car(landcrozer).  
3 car(mazdasix).  
4 car(correla).  
5 car(rengerrover).  
6 car(rengerrover).  
7 car(sonata).  
8 car(mercedes).  
9 car(mustang).  
10 car(jeep).  
11 car(innova).  
12 car(patrol).  
13 car(modren).
```

```
15 size(small).  
16 size(big).  
17  
18 social(married).  
19 social(single).  
20
```

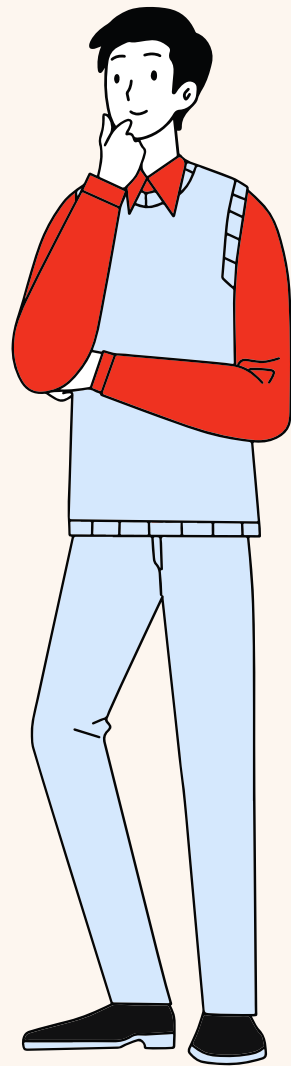




# FACTS

```
21 job(government_employee).  
22 job(freework).  
23  
24 weather(moderat).  
25 weather(hot).
```

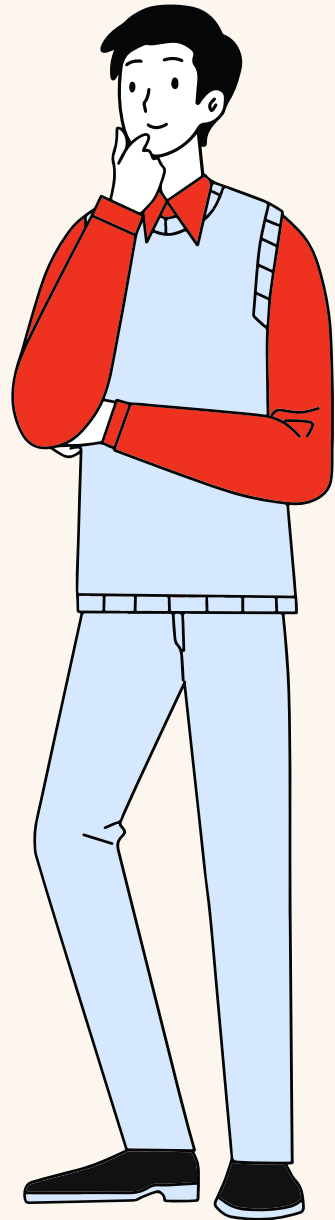
```
27 road(highways).  
28 road(single).  
29  
30 budge(morehundredthousand).  
31 budge(less hundredthousand).  
32  
33 specifi(normaluse).  
34 specifi(invensment).
```



# RULES

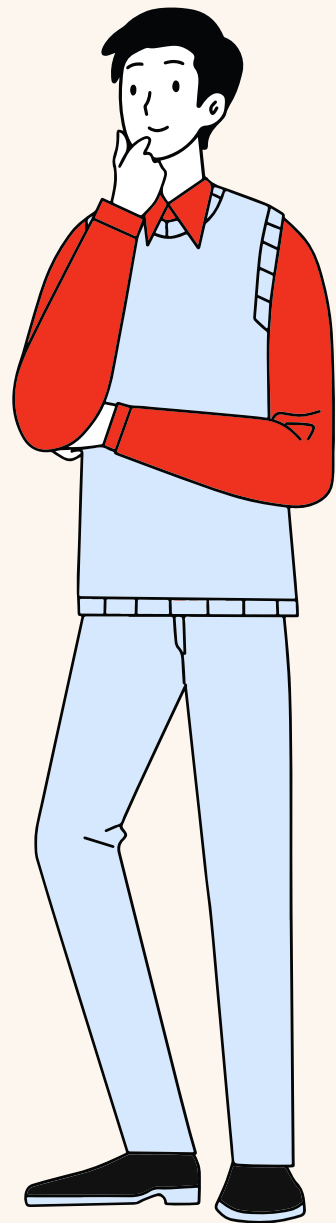
```
56 %Rules
57 cartype('landcrozer',SO,big,W,R,J,B,SB):- SO = married , W=(hot) , R=(mountainous),
58     J=(freework),B=(morehundredthousand),SB=(normaluse),!.
59 cartype('mazdasix',SO,small,W,R,J,B,SB):- SO = single , W=(hot) , R=(highways),
60     J=(freework),B=(morehundredthousand),SB=(normaluse),!.
61 cartype('correla',SO,small,W,R,J,B,SB):- SO = single , W=(hot) , R=(highways),
62     J=(freework),B=(lesshundredthousand),SB=(normaluse),!.
63 cartype('rengerrover',SO,big,W,R,J,B,SB):- SO =married , W=(hot) , R=(mountainous),
64     J=(government_employee),B=(morehundredthousand),SB=(invensment),!.
65 cartype('sonata',SO,small,W,R,J,B,SB):- SO =single , W=(hot) , R=(highways),
66     J=(government_employee),B=(lesshundredthousand),SB=(normaluse),!.
67 cartype('mercedes',SO,small,W,R,J,B,SB):- SO =single , W=(moderat) , R=(highways),
68     J=(government_employee),B=(morehundredthousand),SB=(invensment),!.
69 cartype('mustang',SO,small,W,R,J,B,SB):-SO = single , W=(moderat) , R=(highways),
70     J=(freework),B=(morehundredthousand),SB=(invensment),!.
71 cartype('jeep',SO,big,W,R,J,B,SB):- SO =married , W=(moderat) , R=(mountainous),
72     J=(freework),B=(morehundredthousand),SB=(invensment),!.
73 cartype('innova',SO,big,W,R,J,B,SB):- SO =married, W=(hot), R=(highways),
74     J=(government_employee),B=(lesshundredthousand),SB=(normaluse),!.
75 cartype('patrol',SO,big,W,R,J,B,SB):-SO =married, W=(moderat), R=(highways),
76     J=(government_employee),B=(morehundredthousand),SB=(normaluse),!.
77
```

```
58
59 cartype('unKnown car',_SO,big,_W,_R,_J,_B,_SB):-
60     write('sorry we do not find your perfect car ,This Project contain 10 different car only in
61         the future we will increase the number to fit your need').
62
```



# QUESTIONS

```
64 suggest(C) :-  
65     write("What is your social status?"),nl ,  
66     write("a-married b-single"),  
67     read(SO),  
68  
69     write('What is your Usual country weather?'),nl,  
70     write("a-moderat b-hot"),  
71     read(W),  
72  
73     write('What kind of Road do you go through every day?'),nl,  
74     write("a-highways b-mountainous"),  
75     read(R),  
76  
77     write('What is your job ?'),nl,  
78     write("a- government employee b-freework"),  
79     read(J),  
80  
81     write('What is your rang budget ?'),nl,  
82     write("a-more than hundred thousand b-less than hundred thousand"),  
83     read(B),  
84  
85     write('do you want your car?'),nl,  
86     write("a-normal use b-invensment"),  
87     read(SP),  
88     cartype(C,SO,_,W,R,J,B,SP).
```



# OUTPUT SCREENSHOT



suggest(C)



What is your social status?

a-married b-single

*married*

What is your Usual country weather?

a-moderat b-hot

*hot*

What kind of Road do you go through every day?

a-highways b-mountainous

*mountainous*

What is your job ?

a- government employee b-freework

*freework*

What is your rang budget ?

a-more than hundred thousand b-less than hundred thousand

*morehundredthousand*

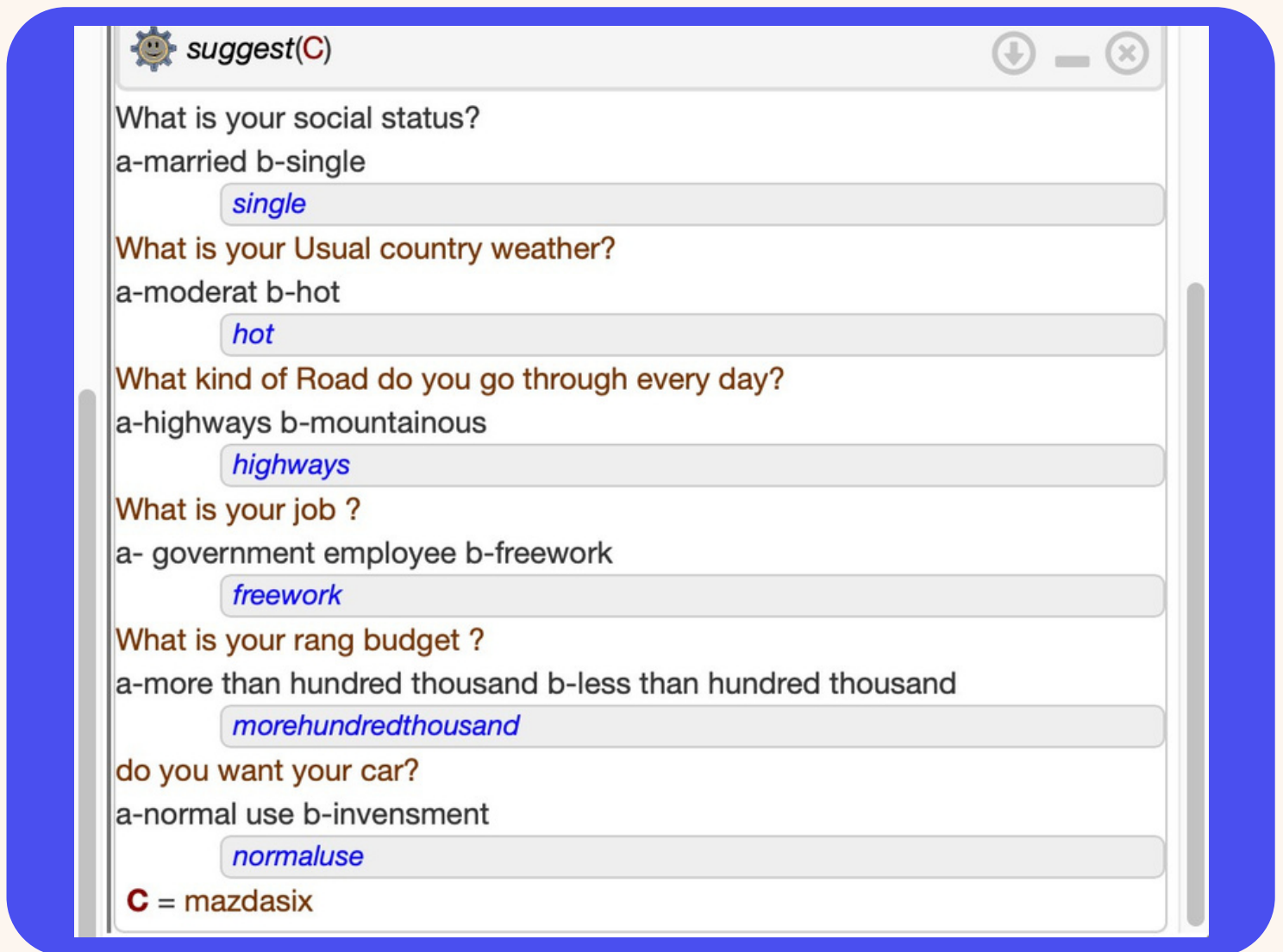
do you want your car?

a-normal use b-invensment

*normaluse*

**C** = landcrozer

# OUTPUT SCREENSHOT



The screenshot shows a web form titled "suggest(C)" with a gear icon and window controls. The form contains several questions with radio button options and text input fields. The selected options are highlighted in blue.

**What is your social status?**  
a-married b-single  
*single*

**What is your Usual country weather?**  
a-moderat b-hot  
*hot*

**What kind of Road do you go through every day?**  
a-highways b-mountainous  
*highways*

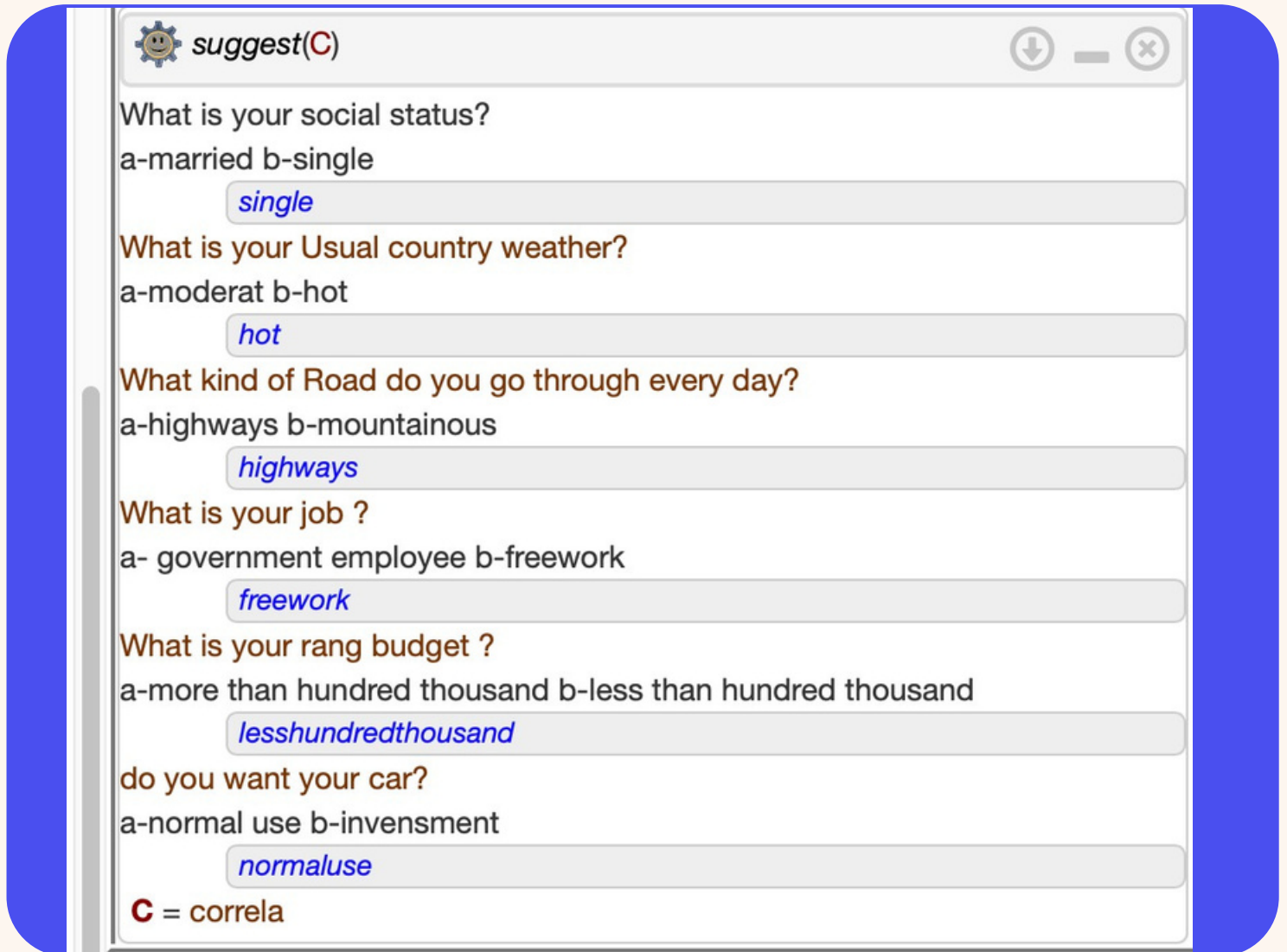
**What is your job ?**  
a- government employee b-freework  
*freework*

**What is your rang budget ?**  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

**do you want your car?**  
a-normal use b-invensment  
*normaluse*

**C = mazdasix**

# OUTPUT SCREENSHOT

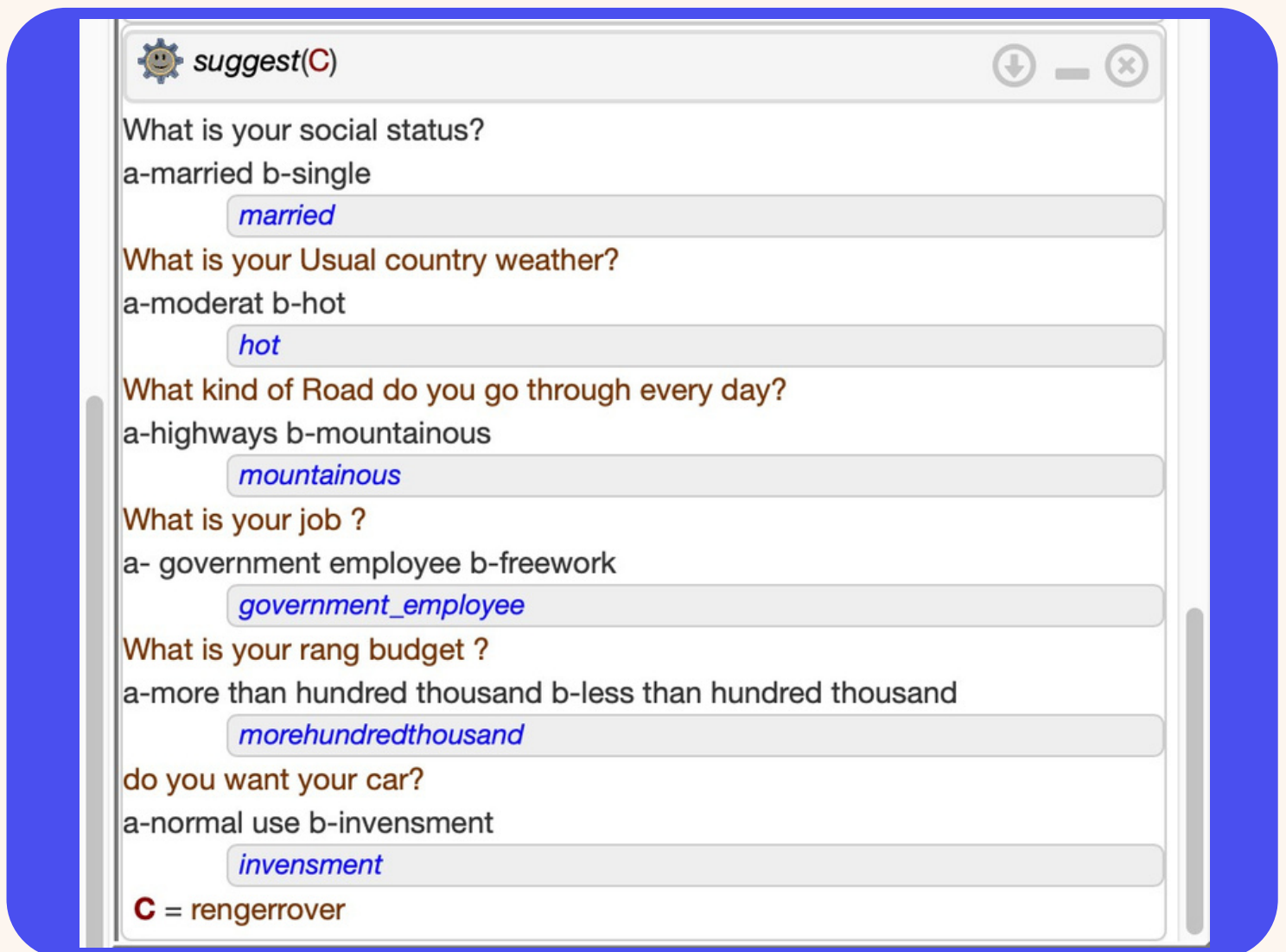


The screenshot shows a web application window titled "suggest(C)" with a gear icon and standard window controls. It contains a series of questions and their suggested answers:

- Question: What is your social status?  
Options: a-married b-single  
Suggestion: *single*
- Question: What is your Usual country weather?  
Options: a-moderat b-hot  
Suggestion: *hot*
- Question: What kind of Road do you go through every day?  
Options: a-highways b-mountainous  
Suggestion: *highways*
- Question: What is your job ?  
Options: a- government employee b-freework  
Suggestion: *freework*
- Question: What is your rang budget ?  
Options: a-more than hundred thousand b-less than hundred thousand  
Suggestion: *lesshundredthousand*
- Question: do you want your car?  
Options: a-normal use b-invensment  
Suggestion: *normaluse*

At the bottom, a legend indicates: **C** = correla

# OUTPUT SCREENSHOT



The screenshot shows a web form titled "suggest(C)" with a gear icon and window controls. It contains several questions with multiple-choice options and text input fields. The selected options are highlighted in blue.

**What is your social status?**  
a-married b-single  
*married*

**What is your Usual country weather?**  
a-moderat b-hot  
*hot*

**What kind of Road do you go through every day?**  
a-highways b-mountainous  
*mountainous*

**What is your job ?**  
a- government employee b-freework  
*government\_employee*

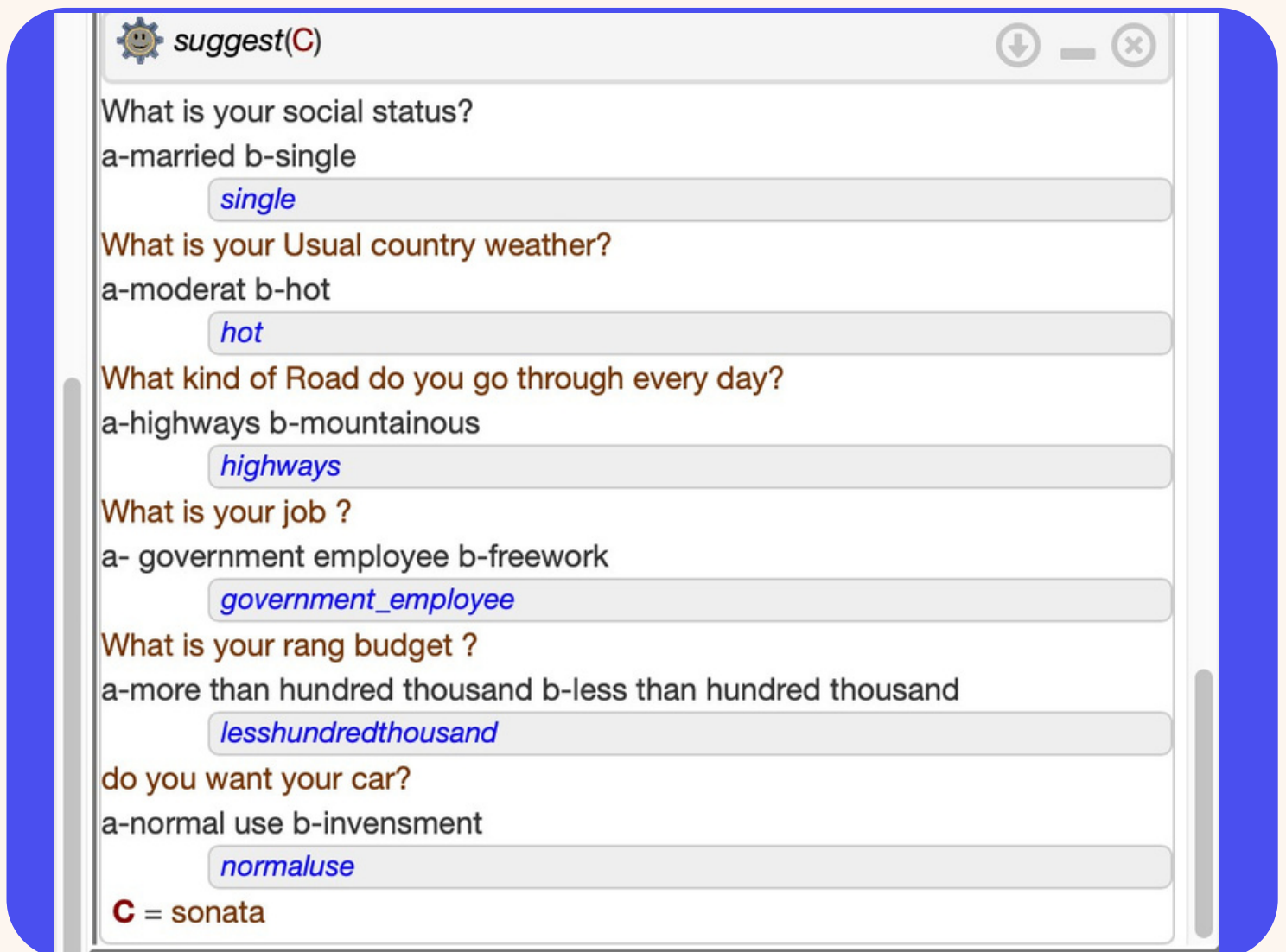
**What is your rang budget ?**  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

**do you want your car?**  
a-normal use b-invensment  
*invensment*

**C** = rengerrover



# OUTPUT SCREENSHOT




The screenshot shows a web application window titled "suggest(C)" with a gear icon and standard window controls. The application displays a series of questions with multiple-choice options and a text input field for the user's selection. The questions and user inputs are as follows:

- Question: What is your social status?  
Options: a-married b-single  
User input: *single*
- Question: What is your Usual country weather?  
Options: a-moderat b-hot  
User input: *hot*
- Question: What kind of Road do you go through every day?  
Options: a-highways b-mountainous  
User input: *highways*
- Question: What is your job ?  
Options: a- government employee b-freework  
User input: *government\_employee*
- Question: What is your rang budget ?  
Options: a-more than hundred thousand b-less than hundred thousand  
User input: *lesshundredthousand*
- Question: do you want your car?  
Options: a-normal use b-invensment  
User input: *normaluse*

At the bottom of the window, there is a legend: **C** = sonata



# OUTPUT SCREENSHOT

 suggest(C)

What is your social status?  
a-married b-single  
*single*

What is your Usual country weather?  
a-moderat b-hot  
*moderat*

What kind of Road do you go through every day?  
a-highways b-mountainous  
*highways*

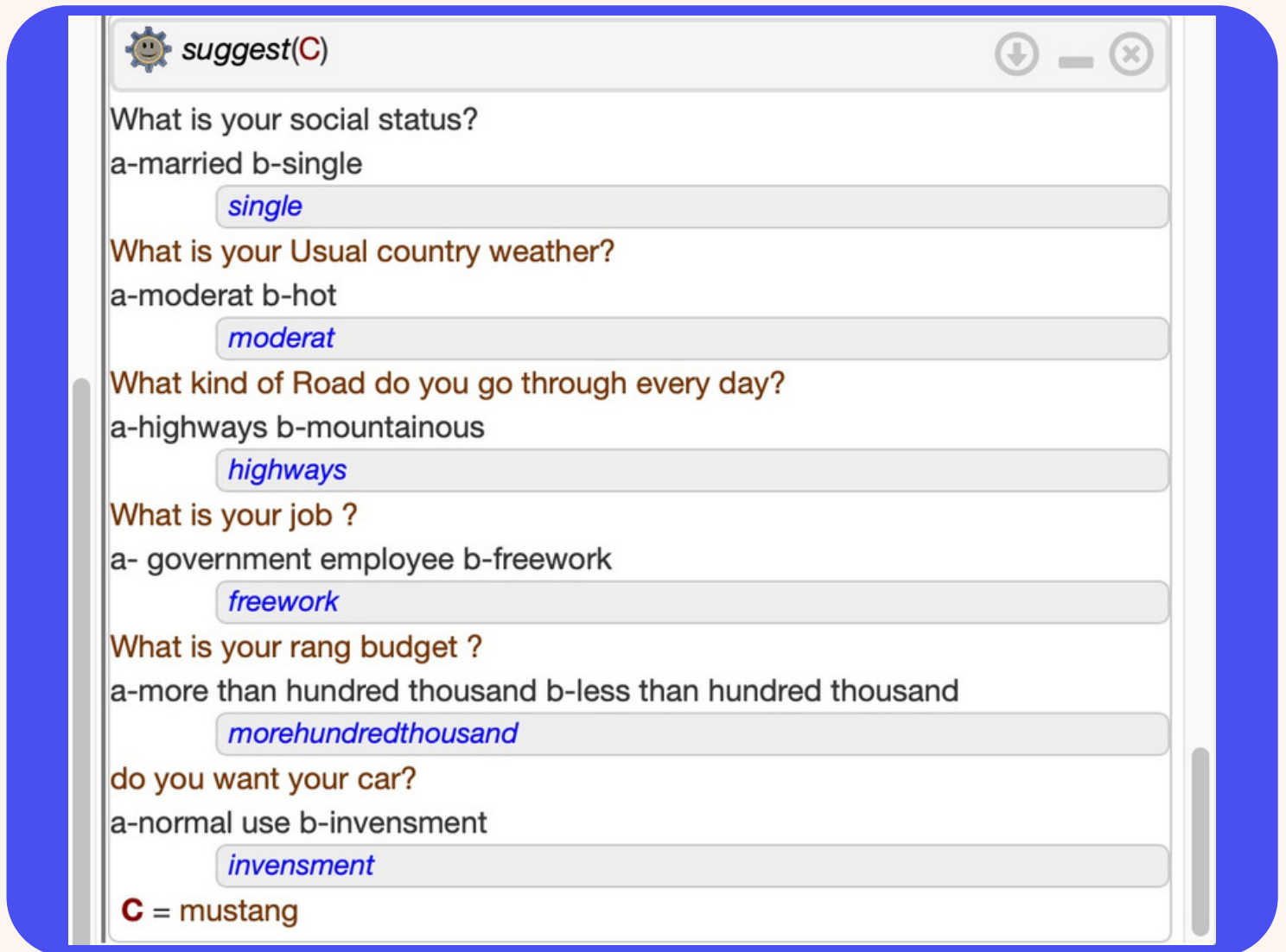
What is your job ?  
a- government employee b-freework  
*government\_employee*

What is your rang budget ?  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

do you want your car?  
a-normal use b-invensment  
*invensment*

C = mercedes

# OUTPUT SCREENSHOT



The screenshot shows a web application window titled "suggest(C)" with a gear icon and standard window controls. The application displays a series of questions with two options each, and the user's selection is shown in a blue box.

What is your social status?  
a-married b-single  
*single*

What is your Usual country weather?  
a-moderat b-hot  
*moderat*

What kind of Road do you go through every day?  
a-highways b-mountainous  
*highways*





What is your job ?  
a- government employee b-freework  
*freework*

What is your rang budget ?  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

do you want your car?  
a-normal use b-invensment  
*invensment*

**C** = mustang

# OUTPUT SCREENSHOT

 suggest(C)   

What is your social status?  
a-married b-single  
*married*

What is your Usual country weather?  
a-moderat b-hot  
*moderat*

What kind of Road do you go through every day?  
a-highways b-mountainous  
*mountainous*

What is your job ?  
a- government employee b-freework  
*freework*

What is your rang budget ?  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

do you want your car?  
a-normal use b-invensment  
*invensment*

**C** = jeep

# OUTPUT SCREENSHOT



suggest(C)



What is your social status?

a-married b-single

*married*

What is your Usual country weather?

a-moderat b-hot

*hot*

What kind of Road do you go through every day?

a-highways b-mountainous

*highways*

What is your job ?

a- government employee b-freework

*government\_employee*

What is your rang budget ?

a-more than hundred thousand b-less than hundred thousand

*lesshundredthousand*

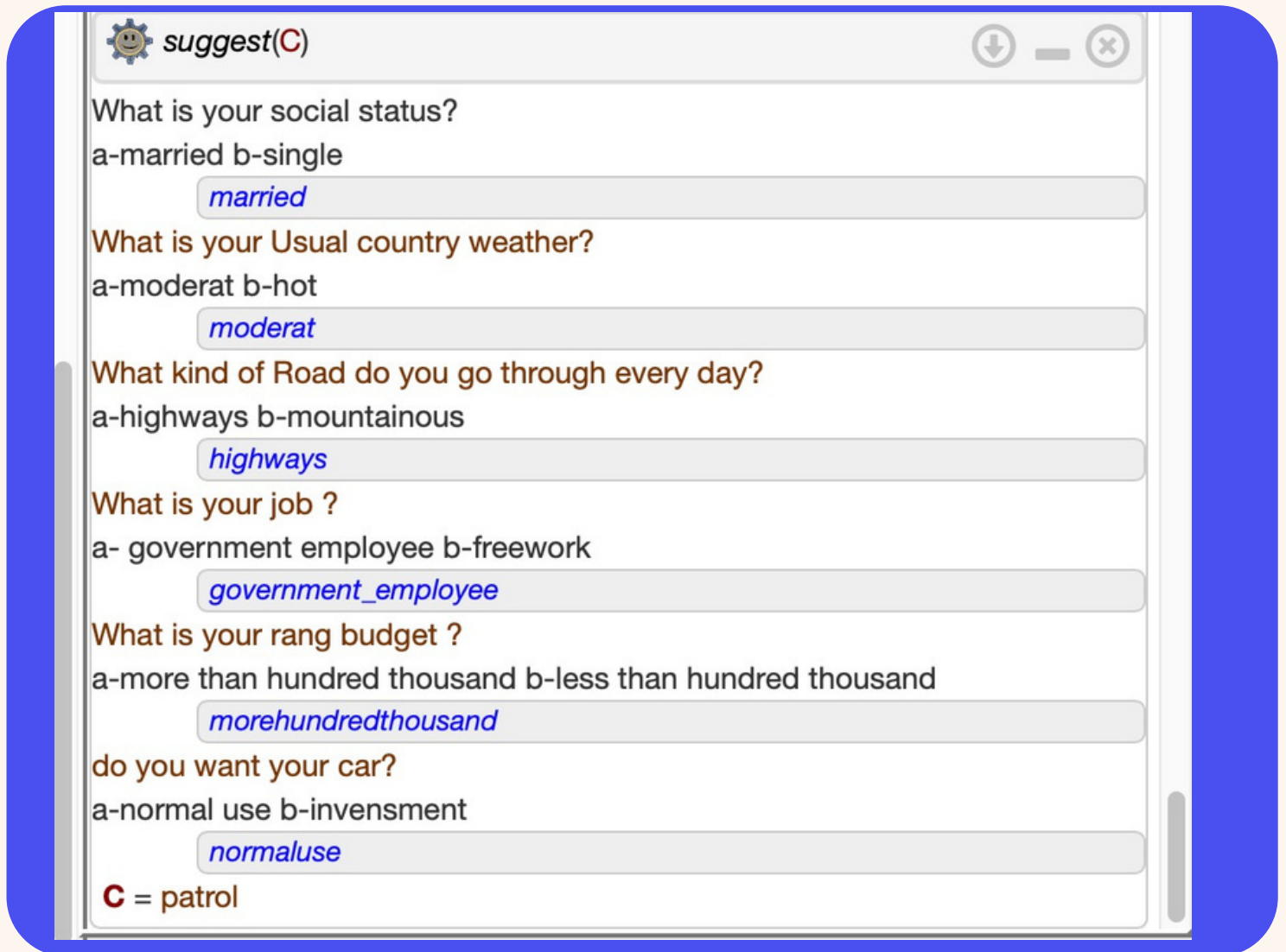
do you want your car?

a-normal use b-invensment

*normaluse*

**C** = innova

# OUTPUT SCREENSHOT



The screenshot shows a web form titled "suggest(C)" with a gear icon and window controls. The form contains several questions with multiple-choice options and a text input field for each. The selected options are highlighted in blue. At the bottom, there is a legend for the variable 'C'.

**suggest(C)**

What is your social status?  
a-married b-single  
*married*

What is your Usual country weather?  
a-moderat b-hot  
*moderat*

What kind of Road do you go through every day?  
a-highways b-mountainous  
*highways*


What is your job ?  
a- government employee b-freework  
*government\_employee*

What is your rang budget ?  
a-more than hundred thousand b-less than hundred thousand  
*morehundredthousand*

do you want your car?  
a-normal use b-invensment  
*normaluse*

**C** = patrol

# OUTPUT SCREENSHOT

 suggest(C)

What is your social status?

a-married b-single

*married*

What is your Usual country weather?

a-moderat b-hot

*government\_employee*

What kind of Road do you go through every day?

a-highways b-mountainous

*moderat*

What is your job ?

a- government employee b-freework

*highways*

What is your rang budget ?

a-more than hundred thousand b-less than hundred thousand

*morehundredthousand*

do you want your car?

a-normal use b-invensment

*normaluse*

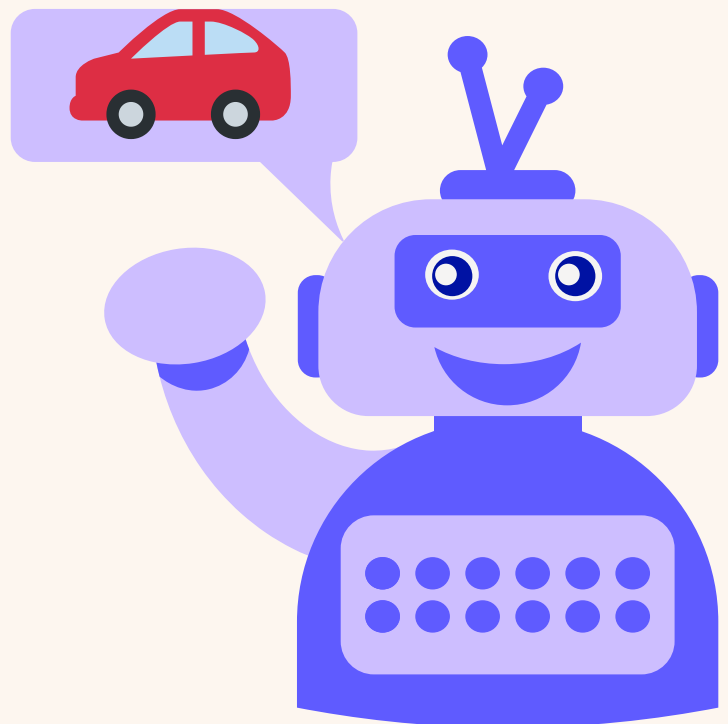
sorry we do not find your perfect car, This Project contain 10 different car  
only in the future we will increase the number to fit your need

**C** = 'unKnown car'

# REFERENCE

-<https://driverbase.com/recommendation/step1>

-<https://www.parkers.co.uk/which-car/?qs=TigoSGFzTmV3UHJpY2VzLCdUcnVlJykpUk4oUG9wdWxhcml0eVJhbmssMS4wLDIxNDc0ODM2NDcuMCK->



# ARTIFICIAL INTELLIGENCE PROJECT

