1. Implement the below question in C++.

A table gives a list of car models and the number of units sold in each type in a specified period. Write a program to store this table in a suitable container and to display interactively the total value of a particular model sold, given the unit-cost of that model.

2. Implement the below question in Prolog:

Domains

Disease -> indication = symbol Patient -> name = string

Patient(P_Id,name,address(building_name,city,zipcode),[treatment(doctor_code, disease]).

Predicates

symptom(name,indication) hypothesis(name,disease) response(char)

- Where,
 - indication = fever, rash, headache, runny_nose, conjunctivitis, cough, body_ache, chills, sore_throat, sneezing
 - ➤ name= Patient's name
 - disease are as follow:
 - 1. **Flu** if patient has fever, headache, body_ache, conjunctivitis, chills, sore throat, runny nose, cough
 - 2. **Common cold** if patient has headache, sneezing, sore_throat, runny nose, chills
 - 3. **Chicken pox** if patient has fever, chills, body ache, rash
 - 4. **Measles** if patient has cough, sneezing, runny nose

Clauses

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Example:

symptom(Patient's name,fever):-

write(\"Does \",Patient,\" have a fever (y/n) ?\"),

response(Reply),
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Reply=\'y\'	epiy=	/ y	/	
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For 3 patients, enter symptoms. Make sure every patient should be having more than
one disease for data purposes.
Enter that 3 patients details (P_Id,Name, Address, treatment)

Find the results for following questions using PROLOG program:

- 1. Find the total number of diseases for each patient.
- 2. Find the name and zip code of each patient.
- 3. Write P_Id and name of all patients staying in **Delhi**.
- 4. List name of all patients treated by doctor **D1**.
- 5. List roll no. of all patients suffering from Common cold
- 6. List building_name and city_code for all patients in the given format (format: [(building_name, citycode)]).
- 7. List all doctors for each given patient.