Example 1: A basic DFD of a University Course Registration System

**Level 0:**

- **Applicant**
- **University Course Registration System**
- **University Administration**

**Level 1:**

- **Applicant**
- **Validate Inputted Details**
- **Process Application**
- **University Administration**

**Level 2:**

- **Validate Inputted Details**
  - Check that the information is all true
  - Check that applicant is eligible for the course
  - Check that the results are valid and not tampered

- **Process Application**
  - Store Students in DB
  - Students DB
  - Inform faculty office
  - Store in courses DB
  - Courses DB
Validate Inputted Details

Check that the information is all true

Check that applicant is eligible for the course

Check that the results are valid and not tampered

University Course Registration System

Process Application

Store Students in DB

Student Details

Courses DB

Inform faculty office

Student Details

Inform faculty office
Example 2:  (Taken from CSA1011 past paper [February 2005])

Draw up a DFD of a very simple Maltese car number plate registration system storing registered number plates on a database. Your system should offer the following functionality:

- Register (add) a number
- Retire (delete) a previously registered number
- Check number for validity
- Check numbers for uniqueness against a database of assigned numbers
- Confirm valid registration

You should decompose your DFDs to whatever level you deem necessary to produce PSPECs in any form of pseudo code you wish. All PSPECs must be shown.
Example 2: A basic DFD of a Maltese car number plate registration system

Level 0:

Level 1:

Level 2:
PSPECS for processes at level 2

Update Car Database
• Create new record in car database
• Store car number and registration details in new record
• Perform database update

Generate registration confirmation and notification
• Display registration confirmation on user’s screen
• Print registration confirmation
• Send registration notification to Transport Authority

Compare car number with database
• Search for old car number in car database
• IF found
  THEN get record number

Delete Record
• Locate record with record number in car database
• Get car record
• Delete record from car database

Generate deletion confirmation and notification
• Display deletion confirmation on user’s screen
• Print deletion confirmation
• Send deletion notification to Transport Authority