Program : Set of instruction to perform a specific task.

Object

Entity

Table

Program

Input : Read Data a=10,b=20,sum

Run time value through keyboard.

Read the data from file system

Process : sum = a+b

Output : Display the Data Print(sum) store the data in file or we generate the reports.

We can store the data permanently

File base system

Database system

Limitation of file base system.

1. Data redundancy : Duplicate records. We can store data in file system.
2. Data inconsistency:
   1. Format of the file.

Cid,CName,PhNumber

Cid/CName/PhNumber

Cid-CName-PhNumber

Cd CName PhNumber

1. Security : for file base system we can provide only read or read/write mode security.
2. To do CRUD Operation. Create / Insert new record, read or retrieve all records, update records and delete records very difficult.

Data : raw fact

Information : meaning full data or processed data.

Database : storing data and information in proper format.

DBMS :Database Management system. It is a software which help to store the data in table format using row and column.

RDBMS : Relational Database Management System.

EF Codd’s rules