

Q1] Draw a DFD for order processing system conforming to following scenario. Buyer initially fills order details in a blank form and completes it. After validating, the order is recorded and signed order form is sent to the supplier and also the available budget is adjusted as per the order. A budget file is maintained to store order amount and account details, also order details are stored in orders file.

Q2] In the following DFD there is one basic input data flow, the weekly timesheet, which originates from the source worker. The basic output is the paycheck, the sink for which is also the worker. In this system, first the employee's record is retrieved, using the employee ID, which is contained in the timesheet. From the employee record, the rate of payment and overtime are obtained. These rates and the regular and overtime hours (from the timesheet) are used to compute the pay. After the total pay is determined, taxes are deducted. To compute the tax deduction, information from the tax-rate file is used. The amount of tax deducted is recorded in the employee and company records. Finally, the paycheck is issued for the net pay. The amount paid is also recorded in company records.

Q3] Create a DFD for library system. A client request is first analyzed in a process labeled 'preliminary processing'. As a result, one of 'borrow title' or 'return title' is activated. Both these processes update a data store labeled 'catalog administration'. Client requests are logged in a data store 'log file'. This data store is used to produce management reports.