**Q4) What is DFD? Create a DFD diagram on Flipkart.**

**Ans: -** A data flow diagram is a graphical or visual representation using a standardized set of symbols and notations to describe a business’s operations through data movement.

There are some standard symbols for represent it.

**Data Flow:**

 A curved line shows the flow of data into or out of a process or data store.

**Process:**

A circle (bubble) shows a process that transforms data inputs into data outputs.

**Source or Sink:**

Source or Sink is an external entity and acts as a source of system inputs or sink of system outputs.

**Data Store:**

A set of parallel lines shows a place for the collection of data items. A data store indicates that the data is stored which can be used at a later stage or by the other processes in a different order. The data store can have an element or group of elements.

**Levels in Data flow Diagrams: -** The DFD may be used to perform a system or software at any level of abstraction. Infact, DFDs may be partitioned into levels that represent increasing information flow and functional detail. Levels in DFD are numbered 0, 1, 2 or beyond. Here, we will see primarily three levels in the data flow diagram, which are: 0-level DFD, 1-level DFD, and 2-level DFD.

**Now take an example of Flipkart:-**

**Context level DFD – 0 level:-**

**The context level data flow diagram is describe the whole system. The (0) level dfd describe the all user module who operate the system. Below data flow diagram of online shipping site shows the two user can operate the system Admin and Member user.**

Request for Login Request for Registration

0.0

Online Shoes Shopping

User

Admin

Response Response

**1st Level Admin Side DFD:-**

The Admin side DFD describe the functionality of Admin, Admin is an owner of the website. Admin can first add category wise and admin can manage order and payment detail.

Request for Login Check for login

1.0) Login

ADMIN

AdminMst

Response Reply

Add/Edit Category Insert Data

2.0) Manage Category

CategoryMst

Response Reply

Add/Edit Item InsertData

3.0) Manage Item

ItemMst

Response Reply

Manage Order View Order

4.0) Manage Order

­ OrderMst

Response Reply

View Report View Report

5.0) Manage Reports

UserMst/OrderMst/PaymentMst

Display Data Display Data

**2nd Level – Admin side DFD (3.0) :-**

Request to Login Check detail

3.0) Login

ADMIN

AdminMst

Response Reply

Insert Data

3.1) Add Item

ItemMst

Reply

Update info

3.2) Change Price/Quantity

ItemMst

Reply

Remove Data

3.3)Delete Item

ItemMst

Reply

**2nd Level – Admin side DFD (4.0) :-**

Request to Login Check detail

4.0) Login

ADMIN

AdminMst

Response Reply

Request for view

4.1) View Order

OrderMst

Reply

Request for confirm/cancel

4.2) Confirm/ Cancel Order

OrderMst

Reply

Dispatch Order

4.3) Dispatch Order

OrderMst

Reply

**2nd Level – Admin side DFD (5.0) :-**

Request to Login Check detail

5.0) Login

ADMIN

AdminMst

Response Reply

Request for view

5.1) User Report

UserMst

Reply

Request for view

5.2) Item Report

ItemMst

Reply

Request for view

5.3)Order Report

OrderMst

Reply

Request for view

5.4) Payment Report

PaymentMst

Reply

**1st Level – User side Data flow Diagram :-**

The user is all people who operate or visit our website. User is a customer of a website. User can first select product for buy, user must have to register in our system for purchase any item from our website. After registration he/she can login to site and buy item by making online payment through any bank debit card, credit card, UPI or COD.

User

1.0 Search Item

ItemMst

2.0 Registration

UserMst

3.0 Login

UserMst

4.0 Account

UserMst

5.0 Buy Item

ItemMst

6.0 Make Order

OrderMst

7.0 Make Payment

PaymentMst

**2nd Level – User side DFD (4.0) :-**

Request to Login Check detail

4.0) Login

User

UserMst

Response Reply

Request for view

4.1) View Account

UserMst

Reply

Update password

4.2) Change Password

UserMst

Reply

Edit Profile

4.3) Edit Account

UserMst

Reply

**2nd Level User DFD (5.0) :-**

Request to Login Check detail

5.0) Login

ADMIN

UserMst

Response Reply

Request for view

5.1) View Item

ItemMst

Reply

Update Password

5.2) Add to Cart

OrderMst

Reply

Edit Profile

5.3) Confirm Order

OrderMst

Reply