Formative Assessment

Name: _____ Class: _____

Learning Objectives:	11.2.1.6 use data flow diagrams (DFD) to input, process, store and output data in computing systems

1. List the four components needed for a DFD diagram.

2. List the advantages of DFD diagrams.

3. List the disadvantages of DFD diagrams.

4. Draw a Data Flow Diagram (DFD) showing the **dataflows, processes, external entities** and **datastores** of data in an **Appointment Booking** system for a hairdresser.

A customer can book an appointment online. The hairdresser will have a schedule generated for her each day with all her appoint for the day.

The **Appointment Booking System** *Data Flow Diagram contains eight dataflows, two processes, two external entities and one store:*

Process:	External Entities:	Data Stores:
• *Appointment Processing* • *Invoice Processing*	• *Customer* • *Hairdresser*	• *Appointments*

Data Flows:
• The **Appointment Processing** process receives an Appointment from the **Customer**.   • The **Appointment Processing** process receives information from the **Appointments data store** if the time is available.   • The **Appointment Processing** process stores the appointment in the **Appointments data store**.   • The **Appointment Processing** process sends a confirmation to the **Customer** if the time is available.   • The **Appointment Processing** process receives all the days appointments from the **Appointments data store**.   • The **Appointment Processing** process generates and send a schedule for the day to the hairdresser.   • The **Invoice Processing** process receives the appointment from the **Appointments data store** to generate an invoice.   • The **Invoice Processing** process sends the invoice to the customer.