Date! 29/2/25 Task-1-1 Mobile Phone pumbas.
The Entity Relationship (ER) diagram for a
Mobile Phone Pumbes and Billing Manyment

System that maintains details of customers.

Den To design an Entity Pelationship cox)

diagram for a Mobile phone punties and
Biling Managment. System that maintain

details of entroness, mobiles, biling, and

logic credentials for administrative purpose

-Algorithm o

Step1: Start.

Step 2! I dentify the main Entities

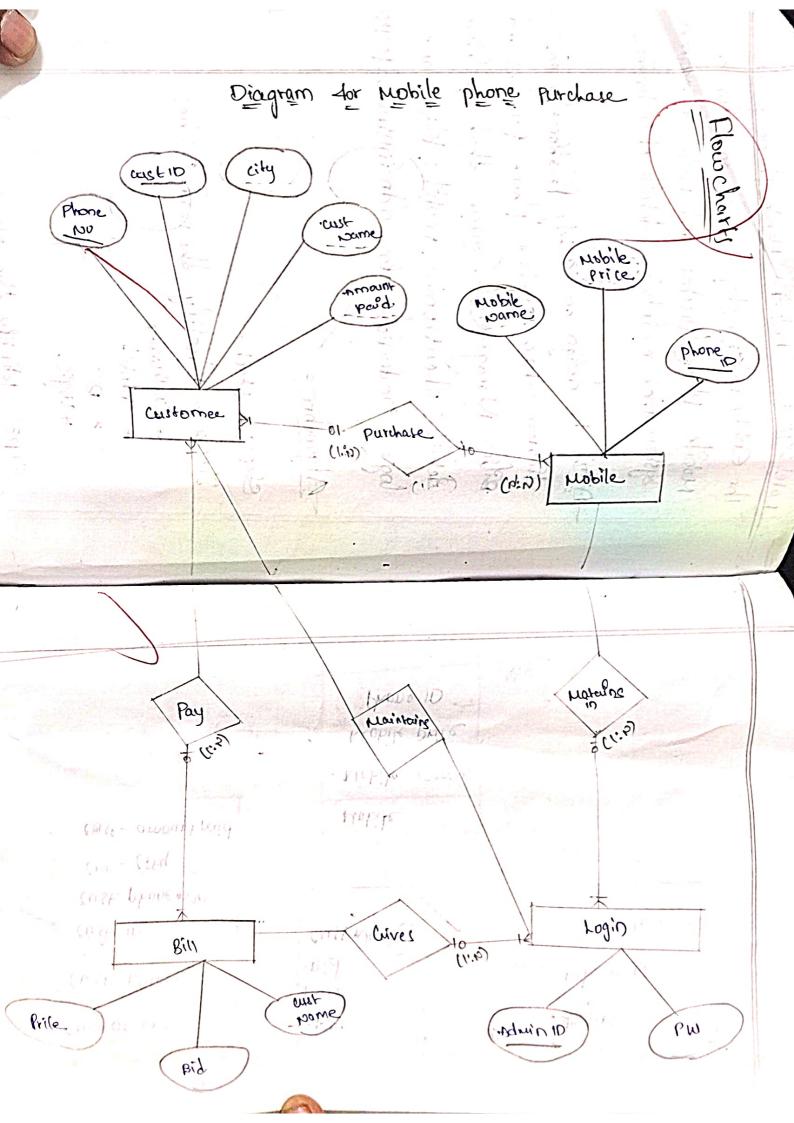
4 Customer

* Nobile

* Q111

4 Logic

Step3/ Identify the Attributes for Each Entity.



- * Customer, cust 10, cust Name, city, Phone No, Amount Paid
- * Mobile! phone 10, rubile Name, mobile
- 4 Bill: Bid, cust warme, price
- * Logic: Admin 10, Password (PW)
 - Step &: Identify Relationships Between Entities
- Purchase one or more mobiles
- * Customer: Pay + Bill: A customer pays and receives a bill.
- * Bill-cives-logic: A bill is given by a login!
 admin account.
- * hogic pour toins customes (nobile: Admin)

Steps: Détermine Coudinality.

- Construrrée do mobile. Many to-Many (via puchase)
- * Customer to Bill one-to-one or one-to-
- . A : hogic to Bill; Oneto-Many
 - * hogic to reobile (customer). One-to . Many

Step6!- Drow the ER Diagram.

* Rectangle: Entities

* Ellipse: Aftributes

* Diamonds! Relationship

* Lines: - Connections

* Symbols: [11,0) = Cardina lities (eq., one, many, optional)

VEL TECH
-1/10
PERFORMANCE (5) RESULT AND ANALYSIS (5) 2
VIVA VOCE (5)
RECORD (5)
SIGN WITH DATE
SIGN WITH BUTTON
A PORMANICE (S)
RESULT AND ANALYSIS GOT VIVA VOCE (3)
PECORD (4)
1279 137
RECORD (4)

Result?—Thus, the to design an entity Relationship diagram for a nubite phone purchase and Billing Managness is Successfully verified.

Convert. ER Diagram into Relation Ship Nedel.

Aim! To consert on ER Diagram into.

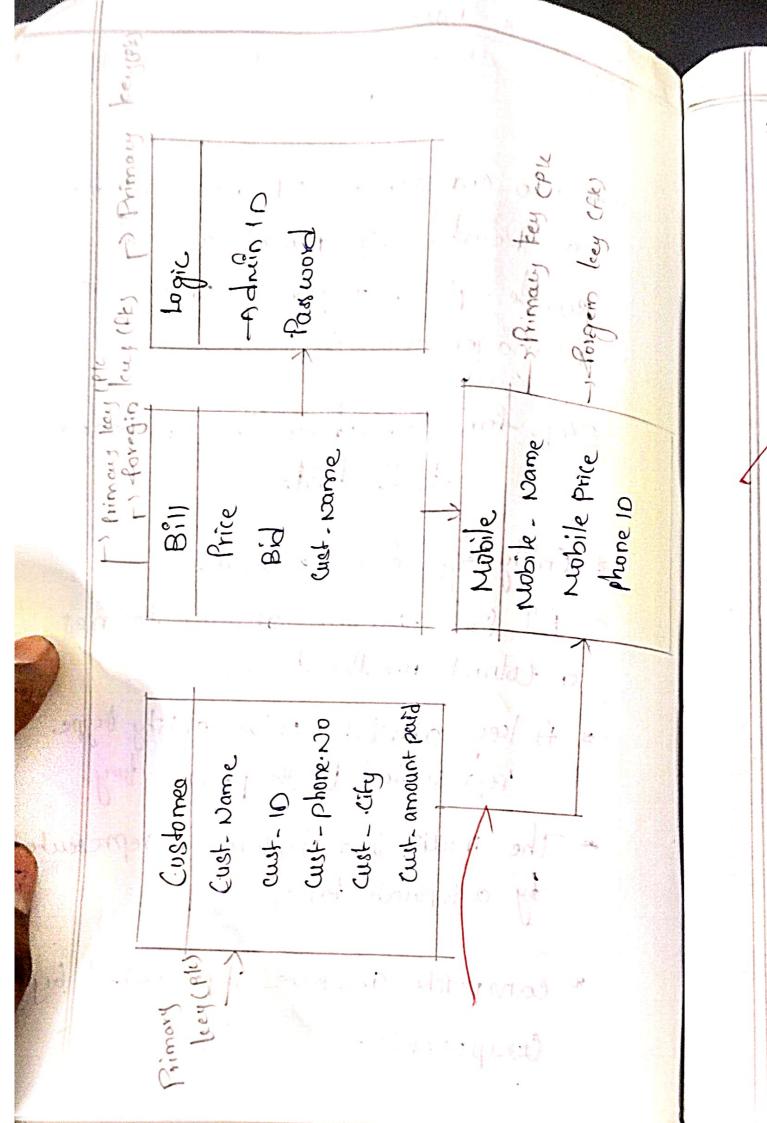
a Relation ship model for a

Mobile phone puches database

Management System.

Eteps. for converting the ER diagrams

- * Entity type becomes a table
- a column for the table
 - * A key attribute of the entity type represented by the primary key.
- If the multivalued attributed is represented by a separate table
 - * composite attribute represented by



the or diagram to table s. and convert and assign the mapping between the tables. Table structure for the given or diagram is as below.

VEL TECH	
EX NO.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	2
RECORD (5)	
TOTAL (20)	12
SIGN WITH DATE	(B) 11/0/
	09/2/

VELTECH		
EX No.		
PERFORMANCE (5)		
RESULT AND ANALYSIS	(3)	
VIVA VOCE (3)	(5)	
RECORD (4)		
101n. (15)	1	
PITY DATE		

Result)-

Thus the conversion of an ex Diagram into in Relation ship model for a Mobile phone puches data base Management System was trawn successfully.