ASSIGNMENT

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1) Definition -

Electricity Bill of different village pomonayat using Abstruct Factory Design Poutern.

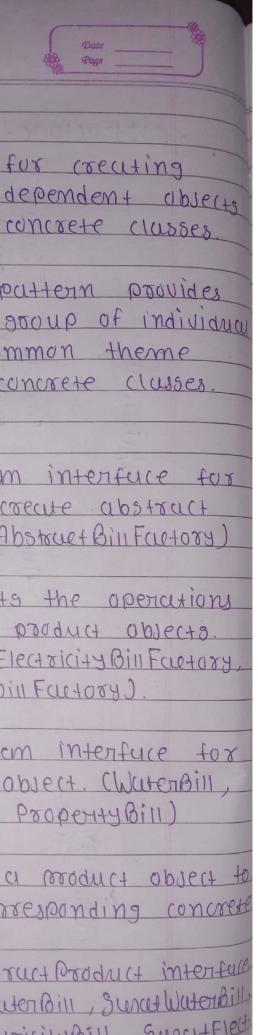
al Classes:

- Abad Water Bill
- Chamagan Water Bill
- Swrat Water Bill
- Abad Electricity Bill
- anagan Electricity Bill
- · Surcit Electricity Bits
- AbadPoopertyBill
- Conceyan Property Bill
- Swrut Property Bill

3] class Diagram-

Bill E	lectricity Bill	PropertyBill
- Jet Witter Com	t Electricity Bill ecum Cond ()	- get Property B'ill() - Tecum (and)

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	Wuterlein	Electricity din	Chmugan - 3et Bill C	
		A board Betterin C)	Phodd - yearling	
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	Abstract Bill	60	Factory Bill factory	

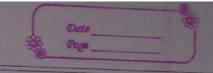


- provide un interfuce for creating families of recuted or dependent abjects without spectaing their concrete classes.
- The abstract factory pattern provides a way to encapsuate a stoup of individual factories that have a common theme without spectaing their concrete classes.

&J Participant -

- Abstruct Factory declares an intenface for openations that create abstract product objects. (Abstruct Bill Factory)
- Concrete Fuctory implements the operations
 to create concrete product objects.

 (WaterBillFaltory, ElectricityBillFaltory,
 PropertyBill Faltory).
- Abstruct Product declures com interface for a type of product object. (Waterbill, Electricity Bill, Property Bill)
- be coecuted by the corresponding concrete
 fuetory
- implements the Abstruct Product interface (Abad WaterBill, Mnayan WaterBill, Sunat WaterBill, Abad Electricity Bill, Grand Electricity Bill, Sunat E



- Client -

Uses only interfaces declared by Abstract factory and Abstract Product Classes.

8) Known As -

10] Collaborations-

To crecite different product, the client should use a different concrete factory.

117 Applicability -

- Use the Abstruct Factory Pattern when
 - A system should be independent of how its products are created, composed and represented.
 - one of multiple families of products.
 - is designed to be used together, and you need to enforce this constraint.

- It isolutes concrete classes from the
- You use the Abstruct Fuctory to contrathe classes of objects the client creates
- Product names cure isoluted in the implementation of the concrete fuctor clients use the instances through their interfaces.
- · Exchanging product families is easy.
- make sure that the right products one used together.

137 Disadvumtuses.

- Adding a new product requires
 extending the interface which implies
 that all of its derived concrete
 classes also must change. The following
 changes needs to be taken care of:
 - · New abotruct product class is added

