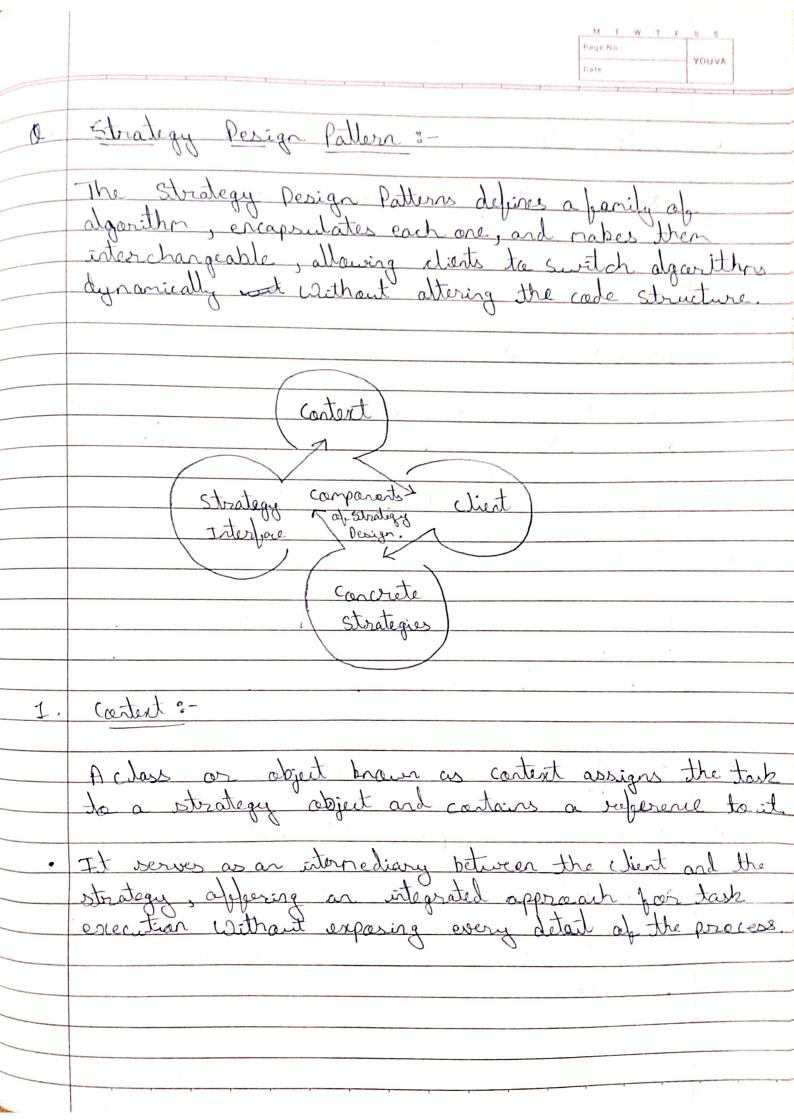
Understand what is design patterns in java. + A design pattern is a reusable Solution box common problems in software design used in engineering. It is not a full design ready for coding but rather a guideline or model par solving issues. Design patters can be adapted to different situations and contents, providing plexibility in problem - solving issues.

Design patterns can be adapted to different situation and content, providing phribility in problem solving what purpose does it was Salve in design Use design patterns for common design problem with established solution providing proven strategies for software challenges. Enhance Code reusability, plexibility, and maintainability, making months modifications easier as requirements evalve. Support bey principles like separation of concerns encapsulation, and dependency in version, leading to better rodularity and reduced dependencies.



a) strategy iter face: It is an interface or abstract class that defines a set of nethods that all concrete strategies must implement. 3) Coverete strategies:-Coverete Strategies are the various implementations of the strategy interfaces. Each concrete strategy provides a specific algorithm for behaviour for performing the task defined by the Strategy italy The client is responsible for selecting and configuring the appropriate strategy and providing it to the content. Q: 5 dipperent types ab design pattern. D chain at hesponsibility neithed design pattern: chain pattern is used to achieve hoose coupling in sofetime design where a trequest from the client is passed to a chain of objects to process ther.

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2)	Connand Method Design pattern:
1	A behavioural design pattern called the command pattern transforms a request into an independent abject with all of the information request
3)	Interpreter method design patterns-
	Interpreter pattern is used to defines a gramatical representation for a language and provides and interpreter to deal with this grammar.
ω	State notrad design pattern:
	It is possible to select an objects behaviour at outine by utilizing the strategy pesign Pattern
	Encapsulating a family refi algorithms into distint classes that each implement a common interforce is the foundation of strategy pattern.
4)	State nethad design pattern:
	com an abject modifier its behaviour according to its internal state, the state design pattern is applied.
	The we have to change the behaviour of an object based on its state, we can have a state variable in the object and use the informations condition block to perform different actions
	based on the state