	Assignment No. 10
	litte: Design and develop MongoDB Gueries using (RUD)
-	STANDARD THE STANDARD OF THE STANDARD S
	CRUP operations (Use CRUP ops, SAVE, logical ups)
	Objective: To understand & implement the CRUD operations in MongoDB.
	SIW & HIW Requirement: Mongoob, 14-bit Os, Fedora, 84B RAM,
	10000 by allower to report to
	Theory:
	the anti-state branch of Adapter - with the of
K	Mongo DB: - It is a cross-platform idocumente Drinted delabase
	that provides high performance high availability, and
	easily coalability. It works an court of collection &
	document. A single Mongolb server typically has multiple
	databases.
	A STATE OF THE STA
d	Collection: - A group of Mongobb documents. Equivalent of an
	ROBERS table A collection exists within a
	cine detabase collections do not enforce a scheme
	Posingle detabase. Collections do not enforce a scheme Documents within a collection can have different fields.
	Documents within a collection can have of similar typically, all documents in a collection are of similar
364	or related purpose.
	C be value maire pocument
ex	Document: - A document is a set of key-value pairs. Documents have bynamic scheme which megas that documents
	in same collection do not need to have the same set of fields.

Or structure, and common fields may hold different types of data. In every document, id is a 12 bytes heradecimal number which assures the origineress of every document loy an provide id while insenting the document. If you didn't provide then mangabb provides a unique id for every document fixed 4 bytes for current timestamp next 3 by machine id, next 2 by process idof mayodb server . I remaining 3 are simple intremosty Value. at Advantages of mango DB over ROBINS: 1. Schemaless: - MongoDB is downent database in which one collection holds different documents. No. of fields, content & size of document can differ from one document to another. 2. Structure of a single objet is clear 3. No complex joins 4. Deep query-ability :- mangoDB supports dynamic quinies on documents using a document-book query language that's nearly as powerful as sol. 5 Tuning 6. Ease of scale-out: Mongo DB is easy to scale Conversion imapping of application objects to database objects not needed. Use internal memory for storing the (windo wed) wasting set, enabling fastes access of data.

Mongo OB CRUD operations with Python (Rymongo) fymongo is a python distribution that contains tools for working with mongolb, so in this Install pynongo: pip install pymongo Connecting to Palabese with Pymony >>> from pymongo import mongolient 7>> client = Mongo (lient ('localhost', 27017) Ab = diont.text (test database) col = db.pesson ( proton collection) CRUD oppositions: -(- (reate: mongo stores the data in the form of ISON objects So every record for a collection in mango is called a document. If the collection does not currently exist, insort operations will regate the collection. We can insert the documents into collection in 3 ways. 1. insert\_one():- inserts a single document into a collection ? insert many (): - isserts many documents into a collection B. insert(): - insert() can be yet to insert single or array or documents. R-Read: We can retrieve the documents from a collection using 2 methods 1. Find(): - will return with all the documents in that collection By default it returns a cursor object.

2. And one(): - returns the first document in the collection D-Delete: - We can blote the documents in the edlection asing following methods. 9. delete one () 2. delete many () Both three methods will return a Delete Result object. U-Update: - We can update the documents from the Collection with the following methods 1. 40 date() 2. up date one () 3. update\_mony() 4. replace one() General syntax : comethed name should thou, up dute or replace document, upset fall, hypass - document - validation = False) condition: A gumy that matches the document to replace. update or replace document: The new document upsert (optional): If Toye, perform an insert of no documents match the filter. bypass document validation: (optional) If True, allows the write to optout of document level vy li dation page H is false.

*	Logical Query Operators.
	\$08: Joins quary dayses with a logical OR returns all documents that match the conditions of either chase.
	the documents that match both conditions.
	Inot: Inverts effect of query expression frequency expression.
	\$ nor. Joins query clauses with a logical INOR return all opera does that fail to natch both clouses.
	Conclusion: - We successfully implemented (LUD operation) & comparison of cogian operators in mongodb.