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Class: TE-A

**Roll no: 13165** 

Batch: A3

Aim: Implement Map reduce operation with suitable example using MongoDB.

Windows PowerShell

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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\hulaw> mongosh

Current Mongosh Log ID: 671004523ff533183186b01c

Connecting to:

mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+2.3.2

Using MongoDB: 8.0.1

Using Mongosh: 2.3.2

For mongosh info see: https://www.mongodb.com/docs/mongodb-shell/

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The server generated these startup warnings when booting

2024-10-16T20:29:40.756+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

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test> show dbs

admin 40.00 KiB

bill 152.00 KiB

book 40.00 KiB

```
config 108.00 KiB
customer 108.00 KiB
local
       40.00 KiB
test> use bill
switched to db bill
*Insert Data:
bill> db.pay.insertMany([
    {Cust_ID: "A123", Product: "Milk", Amount: 40, Status: "P"},
    {Cust_ID: "A123", Product: "Parle_G", Amount: 50, Status: "NP"},
    {Cust_ID: "A123", Product: "Lays Chips", Amount: 40, Status: "P"},
    {Cust_ID: "B123", Product: "Mentos", Amount: 10, Status: "P"},
    {Cust_ID: "B123", Product: "Maggie", Amount: 60, Status: "NP"}
...]);
{
 acknowledged: true,
 insertedIds: {
  '0': ObjectId('6710045c3ff533183186b01d'),
  '1': ObjectId('6710045c3ff533183186b01e'),
  '2': ObjectId('6710045c3ff533183186b01f'),
  '3': ObjectId('6710045c3ff533183186b020'),
  '4': ObjectId('6710045c3ff533183186b021')
}
}
*Aggregation Pipeline:
bill> db.pay.aggregate([
... { $match: { Status: "NP" } }, // Filter documents with Status "NP"
... { $group: {_id: "$Cust_ID", totalAmount: { $sum: "$Amount" } } } // Group by Cust_ID and sum
amounts
...]);
{ _id: 'B123', totalAmount: 240 },
```