

Backend Developer

1. File Usage

Create a node js program "**FileUsage**" which accepts the directory as input and prints the list of files and size.

It should print in descending order (Big size files comes first)

Eg Output:

45M File1.log

25K File2.tmp

2K Test.txt

197B New.log

124B README.md

2. Bank Account Simulation

Create a typescript based api "**BackAccount**" class with following functionalities:

- openAccount - used to start the account. Parameters passed are "name, gender, dob, email, mobile, address, initialBalance, adharNo, panNo, etc". Store the information as account details. Only after opening we can do transactions on this account.
- updateKYC - used to update the account KYC details - Parameters passed are "name, dob, email, mobile, adharNo, panNo". Update the KYC information in account details
- depositMoney - used to deposit money in the account. Parameters passed are "amount". Update the balance and create the ledger for this transaction
- withdrawMoney - used to withdraw money in the account. Parameters passed are "amount". Update the balance and create the ledger for this transaction

- **transferMoney** - used to transfer money to another account. Parameters passed are "toName, amount". Update the balance and create the ledger for this transaction
- **receiveMoney** - used to receive money to another account. Parameters passed are "fromName, amount". Update the balance and create the ledger for this transaction
- **printStatement** - Print the account details and transaction statements in neat format.
- **closeAccount** - Used to close the account. After closing the account no transactions can be done on this account

3. Simple Calc

Create a node js command-line program "**Calc**" which accepts a question as string eg "What is 5 plus 7?". This program parses the question and calculate the result and print it eg: "5 plus 7 is 12".

Program should support for add, subtract, multiply and divide operations.

Input arg: What is 5 plus 7?

Output: 5 plus 7 is 12

Input arg: What is 9 minus 3?

Output: 9 minus 3 is 6

Input arg: What is 24 multiplied by 2?

Output: 24 multiplied by 2 is 48

Input arg: What is 60 divided by 5?

Output: 60 divided by 5 is 12

4. Simple User API

Create a node js express based program "**UserApiServer**" which provides following REST Apis:

- GET /users - Used to return list of the users which information like "id, name, createdOn, gender, dob, city, state, pincode, modifiedOn"
- POST /users - Used to create new user
- PUT /users/<userId> - Used to update an existing user
- DELETE /users/<userId> - Used to delete an existing user

Note: You can store the users information in memory or json data file

5. Order Summary

Create a node js program "**OrderSummary**" which reads a csv file data and prints the total and summary of orders.

Csv File Format:

OrderDate,Code,Account,TotalIncl,TotalExcl,VatAmount

12/09/2023,ORD0002032,Ram,28.08,26,2.08

Output:

No of orders: 5

Total: 235.60

Vat: 35.60