**SAI KUMAR**

function calculateRewards(price) {

if (price >=50 && price < 100) {

return price-50;

} else if (price >100){

return (2\*(price-100) + 50);

}

return 0;

}

class Transaction {

constructor(price) {

this.price = price;

this.rewards = calculateRewards(price);

this.transactionDate = new Date();

}

}

class TransactionList {

constructor() {

this.list = [];

}

getLast3MonthsList() {

var today = new Date();

const threeOldDate = today.setMonth(today.getMonth() - 3);

let filteredList = this.list.filter(trans => trans.transactionDate > threeOldDate);

return filteredList.sort((a,b) => b.transactionDate - a.transactionDate);

}

getAllTransactions() {

return this.list.sort((a,b) => b.transactionDate-a.transactionDate);

}

addTransaction(price) {

const transaction = new Transaction(price);

this.list.push(transaction);

}

getTotalRewards() {

return this.list.length ? this.list.reduce((acc,key)=>key.rewards+acc, 0) : 0;

}

rewardPerMonth() {

let last3MonthRewardsInDesc = [];

for(let i=0; i<3; i++) {

let filteredList = this.list.filter(trans => trans.transactionDate.getMonth() == (new Date).getMonth() - i );

last3MonthRewardsInDesc[i] = filteredList.reduce((acc,key)=>key.rewards+acc,0);

}

return last3MonthRewardsInDesc;

}

}

let myTransactionList = new TransactionList();

myTransactionList.addTransaction(154);

myTransactionList.addTransaction(54);

myTransactionList.addTransaction(200);

myTransactionList.addTransaction(20);

myTransactionList.addTransaction(300);

let arr = myTransactionList.getAllTransactions();