**Assignment 1:**

1) Create an EWallet class as follows:

export class EWallet

{

    constructor(private balance:number)

    {

    }

    public doShopping(amount:number):void

    {

        this.balance -= amount;

    }

    public depositMoney(amount:number):void

    {

        this.balance += amount;

    }

    public getBalance():number

    {

        return this.balance;

    }

}

2) Write unit test cases to test doShopping, depositMoney and getBalance methods.

**Assignment 2:**

1) Create a Pipe as follows:

import { Pipe, PipeTransform } from '@angular/core';

@Pipe({

  name: 'Academics'

})

export class Academics implements PipeTransform {

  transform(value: number): string {

    if(value >= 70) {

      return value + " (Distinction)";

    }

else if(value >= 60) {

      return value + " (First Class)";

    }

else if(value >= 50) {

      return value + " (Second Class)";

    }

else if(value >= 40) {

      return value + " (Pass)";

    }

else {

      return value + " (Fail)";

    }

  }

}

2) Write unit test cases to test this pipe.

**Assignment 3:**

1) Create a NameService as follows:

import { Injectable } from '@angular/core';

@Injectable()

export class NameService {

  names: string[] = [];

  add(name: string) {

    this.names.push(name);

  }

  clear() {

    this.names = [];

  }

}

2) Write unit test cases to test add and clear methods.