

```

/*
Object-Oriented Programing

Dvd Player
-----
Height
Weight
Width
Color

Play
Fast Forward
Rewind
Pause

DVD
-----
Movie Length
Image
Size
*/

class Student{
  constructor (firstName,lastName,phoneNumber,grade) {
    this.firstName = firstName;
    this.lastName = lastName;
    this.phoneNumber= phoneNumber;
    this.grade= grade;
  }
  introduce(){
    console.log(`${this.firstName} ${this.lastName} can be reached at ${this.phoneNumber}`);
  }
}

let student = new Student();
let student1 = new Student('Tom', 'Sawyer', '32434553434', 'A');
let student2 = new Student('Sam', 'Smith', '8989057497', 'B');

student1.introduce();
student2.introduce();

class NotificationSender {
  constructor(status){
    this.status =status;
  }
  sendNotification(notification){
    console.log('Sending;' + notification);
  }

  findUserWithStatus(status) {
    let users = getUsers(status);
    return users;
  }
}

class PromotionSender extends NotificationSender {
  constructor (status){

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        super(status);

    }
    //moved to NotificationSender//////////
    // sendNotification(notification){
    //     console.log('Sending;' + notification);
    // }

    // findUserWithStatus(status) {
    //     let users = getUsers(status);
    //     return users;
    // }
    calculateDiscount(status){
        if (status === 'GOLD'){
            return .3;
        } else if (status === 'SILVER'){
            return .15;
        }
        return 0;
    }
}

class CollectionSender extends NotificationSender {
    constructor(status){
        super(status);
    }
    //moved to NotificationSender above//////////
    // sendNotification(notification){
    //     console.log('Sending' + notification);
    // }
    // findUserWithStatus(status) {
    //     let user = getUser(status);
    //     return user;
    // }
    caluculateDiscount(status){
        if (status === 'OVERDUE'){
            return 10;
        } else if (status === 'DELIQUENT'){
            return 25;
        }
        return 5;
    }
}

let collectionSender = new CollectionSender ('OVERDUE');
collectionSender.sendNotification ('This is a test collection');
////////////////////////////////////////
try {
    list.push ('Hello');
} catch (err){
    console.log(err);
}

console.log('goodbye');

////////////////////////////////////////Menu////////////////////////////////////////

class Player{

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    constructor(name,position){
        this.name =name;
        this.position = position;
    }
    describe(){
        return `${this.name}, plays ${this.position}.`;
    }
}

class Team {
    constructor(name){
        this.name=name;
        this.player =[];
    }

    addPlay(player){
        if(player instanceof Player){
            this.players.push(player);
        }else {
            throw new Error(`You can only addan instance of Player. Argument is not a player:
${player}`);
        }
    }
    describe(){
        return `${this.name} has ${this.players.length} players`;
    }
}

class Menu {
    constructor(){
        this.teams =[];
        this.selectedTeam = null;
    }
    start(){
        let selection = this.showMainMenuOptions();
        while (selection != 0){
            switch (selection){
                case '1':
                    this.createTeam();
                    break;
                case '2':
                    this.viewTeam();
                    break;
                case '3':
                    this.deleteTeam();
                    break;
                case '4':
                    this.displayTeams();
                    break;
                default:
                    selection = 0;
            }
            selection= this.showMenuOptions();
        }

        alert('Goodbye');
    }
}

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    }
    showMainMenuOptions(){
        return prompt(`
        0) exit
        1) create new team
        2) view team
        3) delete team
        4) display all teams
        `);
    }
    showTeamMenuOptions(teamInfo){
        return prompt(`
        0) back
        1) create player
        2) delete player
        -----
        ${teamInfo}
        `)
    }
    displayTeams(){
        let teamString = '';
        for(let i =0; i< this.teams.length;i++){
            teamString += i+ ' ' + this.teams[i].name + '/n';
        }
        SubtleCrypto(teamString);
    }

    createTeam(){
        let name = prompt ('Entername for new team:');
        this.team.push(new Team(name));
    }
    viewTeam(){
        let index = prompt('Enter the index of the team you wish to view:');
        if(index >-1 && index < this.teams.length){
            this.selectedTeam = this.teams[index];
            let description = 'Team Name: ' + this.selectedTeam.name + '\n';

            for (let i=0;i< this.selectedTeam.players.length; i++){
                description += i + ' ' + this.selectedTeam.players[i].name + '-' +
this.selectedTeam.players[i].position + '\n';
            }
            let selection = this.showTeamMenuOptions(description)
            switch (selection){
                case '1':
                    this.createPlayer();
                    break;
                case '2':
                    this.deletePlayer();
            }
        }
        deleteTeam(){
            let index = prompt('Enter the index of the team you wish to delete');
            if (index > -1 && index < this.Teams.name.length){
                this.teams.splice(index,1);
            }
        }
    }

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createPlayer(){
    let name = prompt('Enter name for new player');
    let position = prompt ('Enter position for new player:');
    this.selectedTeam.player.push(new Player(name, position));
}
deletePlayer(){
    let index = prompt('Enter the index of the player your wish to delete:');
    if (index > -1 && index < this.selectedTeam.players.length) {
        this.selectedTeam.players.splice(index,1);
    }
}
}
let menu = new Menu();
menu.start();
```