

# RUNTIME OUTPUT

## 1. List all the teachers

```
C:\WINDOWS\system32\cmd.exe
-----
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

## 2. Add a new teacher

```
C:\WINDOWS\system32\cmd.exe
-----
Enter a teacher name:
Jerry
Jerry has been added to the database.
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

**3. List all the teachers**

```
C:\WINDOWS\system32\cmd.exe
-----
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
Teacher ID: 8, Name: Jerry
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

- 4. Add a new course
  - Assign the new course to the new teacher

```
C:\WINDOWS\system32\cmd.exe
-----
Enter a course name:
Algorithms
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
Teacher ID: 8, Name: Jerry
Select a teacher for this course.
Enter a numeric selection:
8
Algorithms has been added to the database.
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

5. List all courses of a teacher



### Select the new teacher

```
C:\WINDOWS\system32\cmd.exe

-----
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
Teacher ID: 8, Name: Jerry
Enter a numeric selection:
8
Listing courses for [ID: 8, Name: Jerry]:
Course ID: 6, Name: Algorithms
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

## Runtime output for demo

Close the application and list all the teachers and their courses.

```
C:\WINDOWS\system32\cmd.exe

-----
Listing courses for [ID: 2, Name: Teacher2]:
Course: [ID: 2, Name: Science]
Listing courses for [ID: 3, Name: Teacher3]:
Course: [ID: 3, Name: History]
Listing courses for [ID: 4, Name: Teacher4]:
Course: [ID: 4, Name: English]
Listing courses for [ID: 5, Name: Teacher5]:
Course: [ID: 5, Name: Spanish]
Listing courses for [ID: 7, Name: Teacher7]:
No courses for [ID: 7, Name: Teacher7]
Listing courses for [ID: 8, Name: Jerry]:
Course: [ID: 6, Name: Algorithms]
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

Add an existing course to a new teacher.

C:\WINDOWS\system32\cmd.exe

-----  
[1] find by name

[2] find by id

Enter a numeric selection:

2

Course ID: 1, Name: Maths

Course ID: 2, Name: Science

Course ID: 3, Name: History

Course ID: 4, Name: English

Course ID: 5, Name: Spanish

Course ID: 6, Name: Algorithms

Enter a numeric selection:

2

[1] update name

[2] update teacher

Enter a numeric selection:

2

Current teacher for the course:

Teacher: [ID: 2, Name: Teacher2]

Change this course's teacher to:

Teacher ID: 3, Name: Teacher3

Teacher ID: 4, Name: Teacher4

Teacher ID: 5, Name: Teacher5

Teacher ID: 7, Name: Teacher7

Teacher ID: 8, Name: Jerry

Enter a numeric selection:

3

Science has been updated.

[1] add a new teacher

[2] update a teacher



List all courses assigned to the new teacher.

```
C:\WINDOWS\system32\cmd.exe

-----
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
Teacher ID: 8, Name: Jerry
Enter a numeric selection:
3
Listing courses for [ID: 3, Name: Teacher3]:
Course ID: 2, Name: Science
Course ID: 3, Name: History
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

Remove a course



```
C:\WINDOWS\system32\cmd.exe
-----
Course ID: 1, Name: Maths
Course ID: 2, Name: Science
Course ID: 3, Name: History
Course ID: 4, Name: English
Course ID: 5, Name: Spanish
Course ID: 6, Name: Algorithms
Enter a numeric selection:
2
Science has been removed.
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

List the updated teacher without the removed course

```
C:\WINDOWS\system32\cmd.exe
-----
Teacher ID: 2, Name: Teacher2
Teacher ID: 3, Name: Teacher3
Teacher ID: 4, Name: Teacher4
Teacher ID: 5, Name: Teacher5
Teacher ID: 7, Name: Teacher7
Teacher ID: 8, Name: Jerry
Enter a numeric selection:
3
Listing courses for [ID: 3, Name: Teacher3]:
Course ID: 3, Name: History
[1] add a new teacher
[2] update a teacher
[3] remove a teacher
[4] list all teachers
[5] list all courses of a teacher
[6] add a new course
[7] update a course
[8] remove a course
[9] list all courses
[10] list all teachers and courses
[0] exit
Enter a numeric selection:
```

List all the courses without the removed course.

C:\WINDOWS\system32\cmd.exe

```
-----  
Course ID: 1, Name: Maths  
Course ID: 3, Name: History  
Course ID: 4, Name: English  
Course ID: 5, Name: Spanish  
Course ID: 6, Name: Algorithms  
[1] add a new teacher  
[2] update a teacher  
[3] remove a teacher  
[4] list all teachers  
[5] list all courses of a teacher  
[6] add a new course  
[7] update a course  
[8] remove a course  
[9] list all courses  
[10] list all teachers and courses  
[0] exit  
Enter a numeric selection:
```