Enuวิชา การเขียนโปรแกรมเชิงวัตถุ (7152307) ภาคเรียนที่ 2 ปีการศึกษา 2566 ข้อสอบปลายภาค

 จาก Class Diagram ต่อไปนี้ จงเขียน class ด้วยภาษา JavaScript ให้ถูกต้อง โดยให้มี method main() เพื่อแสดงผลต่อไปนี้

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University: Nakhon Pathom Rajabhat University,
        Location: 85 Malaiman Road, Nakhon Pathom, Thailand,
        Departments: Computer Science, Software Engineering,
        Students: Alice, Bob,
        Professors: Dr. Worachet Uttha, Dr. Udsanee Pakdeetrakulwong
Department: Computer Science,
        Courses: 1,
        Students: Alice,
        Professors: Dr. Worachet Uttha
Department: Software Engineering,
        Courses: 1,
        Students: Bob,
        Professors: Dr. Udsanee Pakdeetrakulwong
Course: CS101 - Introduction to Programming,
        Professor: Dr. Worachet Uttha,
        Students: Alice
Course: SE101 - Introduction of Database Design,
        Professor: Dr. Udsanee Pakdeetrakulwong,
        Students: Bob
Student: Alice, Student ID: S001, Year: 1,
        Courses: Introduction to Programming
Student: Bob, Student ID: S002, Year: 2,
        Courses: Introduction of Database Design
Professor: Dr. Worachet Uttha, Staff ID: P001,
        Courses: Introduction to Programming
Professor: Dr. Udsanee Pakdeetrakulwong, Staff ID: P002,
        Courses: Introduction of Database Design
```

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Students in the University:
Student: Alice, Student ID: S001, Year: 1,
        Courses: Introduction to Programming
Student: Bob, Student ID: S002, Year: 2,
        Courses: Introduction of Database Design
Professors in the University:
Professor: Dr. Worachet Uttha, Staff ID: P001,
        Courses: Introduction to Programming
Professor: Dr. Udsanee Pakdeetrakulwong, Staff ID: P002,
        Courses: Introduction of Database Design
Departments in the University:
Department: Computer Science,
        Courses: 1,
        Students: Alice,
        Professors: Dr. Worachet Uttha
Department: Software Engineering,
        Courses: 1,
        Students: Bob,
        Professors: Dr. Udsanee Pakdeetrakulwong
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หมายเหตุ: ทุก class ให้สร้าง method toString() เพื่อแสดงรายละเอียดที่ควรแสดงของแต่ละ class การส่งงาน:

- 1. Source code file "university.js"
- 2. Screenshot ผลลัพธ์จาก Terminal

University + String name + String location +void addDepartment(Department) +void addStudent(Student) +void addProfessor(Professor) +void removeDepartment(Department) +void removeStudent(Student) +void removeProfessor(Professor) +Department[] getDepartments() +Student[] getStudents() +Professor[] getProfessors() +String toString() has Department + String name +void addCourse(Course) +void removeCourse(Course) +void addStudent(Student) +void removeStudent(Student) +void addProfessor(Professor) +void removeProfessor(Professor) +Course[] getCourses() +Student[] getStudents() +String toString() contains Course + String code Person + String title + String name +void addStudent(Student) is a part of is a part of + String address +void removeStudent(Student) + String email +void setProfessor(Professor) +Professor getProfessor() +String toString() +Student[] getStudents() +String toString() taught by enrolled is a is a Student **Professor** + String studentId + String staffld + int year +void teachCourse(Course) +void registerCourse(Course) +void stopTeachingCourse(Course) +void dropCourse(Course) +Course[] getCourses() +Course[] getCourses() +String toString() +String toString()