|  |  |  |
| --- | --- | --- |
| Student class | String name  String id  String department  float cgpa | Member variables  declare private |
| 2 Constructor (Empty, valued) |  |
| showInfo |  |
| Setter Methods | Example:  setName(String name)  String getName() |
| Getter Methods |
|  | | |

|  |  |
| --- | --- |
| **Course Class** | |
| **Member Varibles private** | |
| courseName | To hold course name |
| courseId | To hold course ID |
| courseType | To hold course type, e.g. CS, EEE, BBA etc |
| studentList[] | To hold a student list assigned to the current course |
|  | |
| **Member Methods** |  |
| Course() | Empty constructor |
| Course(…) | Valued constructor |
| showCourseInfo() | Print course information with all the student IDs and names assigned to the course |

Our objective is to provide below functionality:

1. Student can take/enroll max 5 courses.
2. In each course max 30 student can enroll
3. Student can add/drop course, and then automatically that course register student list will also be updated, as well as for student registered list.
4. Show all the courses that a student is registered

Show all the students that are enrolled in a course.

***You have to add necessary member variables and functions to do these tasks.***