

# ITS 4243 Microservices and Cloud Computing

## Microservices & Cloud Computing

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### Assignment -1

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#### Instructions to Students

- Individual Assignment
  - Individual performance will be monitored
  - Please indicate the detail answers and necessary steps as required
  - A two weeks of duration is given from the data of LMS upload
  - Date of the Assignment – 5<sup>th</sup> Feb 2024
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1. What is an API? Compare API VS REST API listing the Features of REST APIs.
  2. Why Spring Boot is Much easy to use than traditional spring framework.
  3. Briefly explain the enterprise approach for software development
  4. "Microservices Architecture mostly suitable with DevOps", discuss your opinion with this statement.
  5. Please implement the below requirement using spring boot
    - A. Create two spring projects called department and employee, open them as a module with intellij
    - B. Connect both services with MySQL database
    - C. Create department JPA entity and spring DATA repository
    - D. Build Department save REST API to enter a record to the entity
    - E. Build get department REST API to select the record
    - F. Follow the same steps for the employee service as well

Please check in the code to GitHub code repository and share the link in the answer upload.