**Day 2 Lab Assignments**

**Use [FacultySystemV2] DB the following assignments (Use GUI App for mongoDB):**

1. Create unique index on FacultyName on the Faculty collection.
2. Using aggregation display the sum of final mark for all courses in Course collection.
3. Implement (one to many) relation between Student and Course, by adding array of Courses IDs in the student object.
   * Select specific student with his name, and then display his courses.
4. Implement relation between Student and faculty by adding the faculty object in the student using Lookup.
   * Select specific student with his name, and then display his faculty.
5. Display each student Full Name along with his average grade in all courses.

**Bonus:**

1. In Assignment No.4, Display Student data along with his faculty data (in one Object).
2. Re-implement the relation between Student and faculty, by Adding a list of students in the faculty object using DBRef.
   * Select specific faculty and display the students on it.
3. Retrieve and insert to MongoDB using a C# Desktop / Web application.
4. Install Redis database, and try to insert and select data from it.

**<Script>document.write(“Thank YOU”) </Script>**