**CE377-AWT Question Bank**

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| 1 | What is nodeJs? Draw and explain architecture of NodeJS. |
| 2 | Create a HTML form which contains Faculty-Id, Faculty-Name, Mobile-No, Age, Birthyear, Address and Email-ID and render using expressJs. Apply form following validation rules using Joi or express-validator   1. All fields are required 2. The faculty-Id contains only positive integer number and support minimum length=2 and maximum length=4 3. The Mobile number contains only positive number, minimum length=99 4. Age contains integer number with minimum value 18 and maximum value 100 5. Birthyear contain integer number with minimum year=1920 and maximum year=2022 6. Email-id must have two domain parts and TLD must be support [.com, .in , org, .ai]   Refer:   1. [joi.dev - 17.6.0 API Reference](https://joi.dev/api/?v=17.6.0) 2. [Getting Started · express-validator](https://express-validator.github.io/docs/) |
| 3 | Refer following PPT   1. Middleware 2. Joi 3. MongoDB |
| 4 | How to create server using nodeJs and expressJs |
| 6 | 1. Callback, promises and async-await [refer code uploaded in MSTeam] 2. Let vs var with example [refer code uploaded in MSTeam] |
| 7 | File handling using NodeJSzw   1. Read/write file 2. Append/changing content in file 3. All operation on directory |
| 8 | **Structure of 'restaurants' collection:**  {  "address": {  "building": "1007",  "coord": [ -73.856077, 40.848447 ],  "street": "Morris Park Ave",  "zipcode": "10462"  },  "borough": "Bronx",  "cuisine": "Bakery",  "grades": [  { "date": { "$date": 1393804800000 }, "grade": "A", "score": 2 },  { "date": { "$date": 1378857600000 }, "grade": "A", "score": 6 },  { "date": { "$date": 1358985600000 }, "grade": "A", "score": 10 },  { "date": { "$date": 1322006400000 }, "grade": "A", "score": 9 },  { "date": { "$date": 1299715200000 }, "grade": "B", "score": 14 }  ],  "name": "Morris Park Bake Shop",  "restaurant\_id": "30075445"  }  Apply following operation using mongoDB   1. Display all records/Display selected field records 2. Insert/update/delete records 3. MongoDB query operators such as comparison and Logical |