Republic of the Philippines

BOHOL ISLAND STATE UNIVERSITY

MAIN CAMPUS

COLLEGE OF ENGINEERING AND ARCHITECTURE

*Vision: A premiere S&T university for the formation of world class and virtuous human resource for sustainable development in Bohol and the Country.*

*Mission: BISU is committed to provide quality higher education in the arts and sciences, as well as in the professional and technological fields: undertake research and development, and extension services for the sustainable development of Bohol and the country.*

**Group 2 Members**: James A. Garin Jr. **Yr/Sec**: BSCPE 4

Jan Marius Torrefiel **Subject**: CpE 422

Renzo Belderol **Instructor**: Engr. Max Angelo Perin

Kyarra Cinconiegue

Jeorie Racines

**IF STATEMENT DFA:**

**IF**

**,**

**.**

**,**

**S**

**EXPR**

Q6

Q5

Q4

Q3

Q2

Q1

Q0

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

Q7

**OTHERS**

**STATE TABLE:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **State** | **IF** | **.** | **EXPR** | **,** | **S** | **OTHERS** |
| **0** | **1** | **7** | **7** | **7** | **7** | **7** |
| **1** | **7** | **2** | **7** | **7** | **7** | **7** |
| **2** | **7** | **7** | **3** | **7** | **7** | **7** |
| **3** | **7** | **7** | **7** | **4** | **7** | **7** |
| **4** | **7** | **7** | **7** | **7** | **5** | **7** |
| **5** | **7** | **7** | **7** | **6** | **7** | **7** |
| **6** | **7** | **7** | **7** | **7** | **7** | **7** |
| **7** | **7** | **7** | **7** | **7** | **7** | **7** |

**EXPRESSION DFA:**

**2 DIGIT NUMBER**

**RELATIONAL**

**OPERATOR**

**OTHERS**

**IDENTIFIER**

Q3

Q2

Q1

Q0

**OTHERS**

**OTHERS**

**OTHERS**

Q4

**OTHERS**

**STATE TABLE:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **State** | **Identifier** | **Relational**  **Operator** | **2 Digit**  **Number** | **Others** |
| **0** | **1** | **4** | **4** | **4** |
| **1** | **4** | **2** | **4** | **4** |
| **2** | **4** | **4** | **3** | **4** |
| **3** | **4** | **4** | **4** | **4** |
| **4** | **4** | **4** | **4** | **4** |

**STATEMENT DFA:**

**2 DIGITNO. , IDEN**

**=**

**2 DIGIT NO. , IDEN**

**IDEN**

**OPERATOR**

Q0

Q1

Q2

Q3

Q4

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

**OTHERS**

Q5

**OTHERS**

**STATE TABLE:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **State** | **IDEN** | **=** | **2 DIGIT NO.** | **OPERATOR** | **OTHERS** |
| **0** | **1** | **5** | **5** | **5** | **5** |
| **1** | **5** | **2** | **5** | **5** | **5** |
| **2** | **3** | **5** | **3** | **5** | **5** |
| **3** | **5** | **5** | **5** | **4** | **5** |
| **4** | **3** | **5** | **3** | **5** | **5** |
| **5** | **5** | **5** | **5** | **5** | **5** |

**IDENTIFIER DFA:**

**LETTER, NUMBER**

**State Table:**

**OTHERS**

**OTHERS**

**LETTER**

Q1

Q0

|  |  |  |  |
| --- | --- | --- | --- |
| **STATE** | **LETTER** | **NUMBER** | **OTHERS** |
| 0 | 1 | 2 | 2 |
| 1 | 1 | 1 | 2 |
| 2 | 2 | 2 | 2 |

Q2

**OTHERS**

**2 DIGIT NUMBER DFA:**

**DIGIT**

**DIGIT**

**State Table:**

Q2

**OTHERS**

Q1

**OTHERS**

**OTHERS**

Q0

|  |  |  |
| --- | --- | --- |
| **STATE** | **DIGIT** | **OTHERS** |
| 1 | 1 | 3 |
| 1 | 2 | 3 |
| 2 | 3 | 3 |
| 3 | 3 | 3 |

Q3

**OTHERS**

**WORK:**

Jan Maruis Torrefiel – GUI

Renzo Belderol – Statement

Kyarra Cinconiegue – Statement

Jeorie Racines – Expression

James Garin Jr. – If Statement Syntax