Bahria University,

Karachi Campus



Course: SEN-221 – Software Design & Architecture

Term: Spring 2020, Class: BSE- 4B

Submitted By:

\_\_\_SYED ALI ABBAS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_02-131182-070\_\_\_\_\_

(Name) (Reg. No.)

Submitted To:

Engr. Majid Kaleem/Engr. Rehan

Signed Remarks: Score:

INDEX

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| --- | --- | --- | --- | --- |
| SNO | DATE | LAB NO | LAB OBJECTIVE | SIGN |
| 1 | 05-02-2020 | Lab1 | Overview of UML |  |
| 2 | 10-02-2020 | Lab2 | Introduction To Rational Rose |  |
| 4 | 16-02-2020 | Lab3 | Singleton Implementation |  |
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| 9 |  |  |  |  |
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| 13 |  |  |  |  |
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LAB EXPERIMENT NO.

\_\_\_\_\_\_**\_1**\_\_\_\_\_\_\_

LIST OF TASKS

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| TASK NO | OBJECTIVE |
| 1. | Create a UML diagram of ATM system using Rational Rose. |
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Submitted On:

\_\_\_05-02-2020\_\_\_

(Date: DD/MM/YY)

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LAB ASSIGNMENT NO.

\_\_\_\_\_\_\_**2**\_\_\_\_\_\_\_

LIST OF TASKS

|  |  |
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| TASK NO | OBJECTIVE |
| 1. | Create class diagram of University Registration and using that diagram apply concept of forward engineering in Rational Rose. |
| 2. | Apply concept of reverse engineering to create the class diagram using java code in Rational Rose. |
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Submitted On:

\_\_\_10-02-2020\_\_\_\_\_

(Date: DD/MM/YY)

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LAB ASSIGNMENT NO.

\_\_\_\_\_\_\_**3**\_\_\_\_\_\_\_

LIST OF TASKS

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| TASK NO | OBJECTIVE |
| 1. | Implement Singleton pattern on printer functionality. |
| 2. | Implement Singleton pattern for Sessions. |
| 3. | Implement Singleton pattern for logger application. |
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Submitted On:

\_\_\_16-02-2020\_\_\_

(Date: DD/MM/YY)