Bahria University,

Karachi Campus



COURSE: CSL-221 SOFTWARE DESIGN AND ARCHITECTURE

TERM:

Spring-2021, CLASS: BSE- 4 (A)

Submitted By:

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Signed Remarks: Score:

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| --- | --- | --- | --- | --- |
| SNO | DATE | LAB NO | LAB OBJECTIVE | SIGN |
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LAB EXPERIMENT NO.

\_\_\_01\_and 02\_\_\_

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | Create class diagram with 5 classes and apply forward engineering approaches to generate code |
| 2 | From forward engineering update your Generated java code and add attributes and operations in your classes. |
| 3 | Reverse Engineer your edited code in task2 and display updated UML diagram |
| 4 | Create 4 Components Each Component contains at least 5 Classes |
|  |  |

Submitted On:

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(Date: 16/5/2021)

**Task No. 1:task 1 of lab1:**

1: Create class diagram with 5 classes and apply forward engineering approaches to generate code

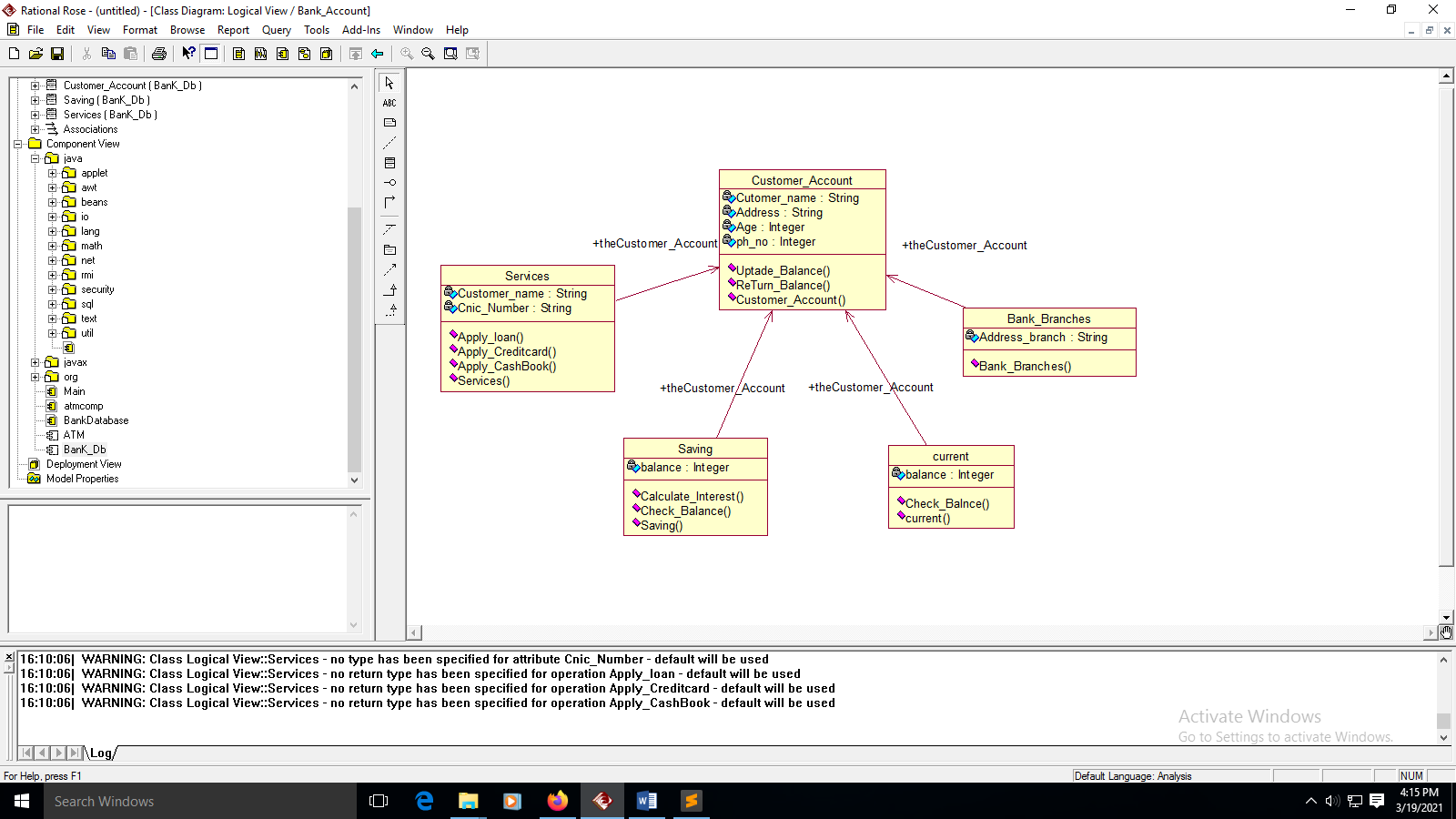
2: From forward engineering update your Generated java code and add attributes and operations in your classes.

3: Reverse Engineer your edited code in task2 and display updated UML diagram

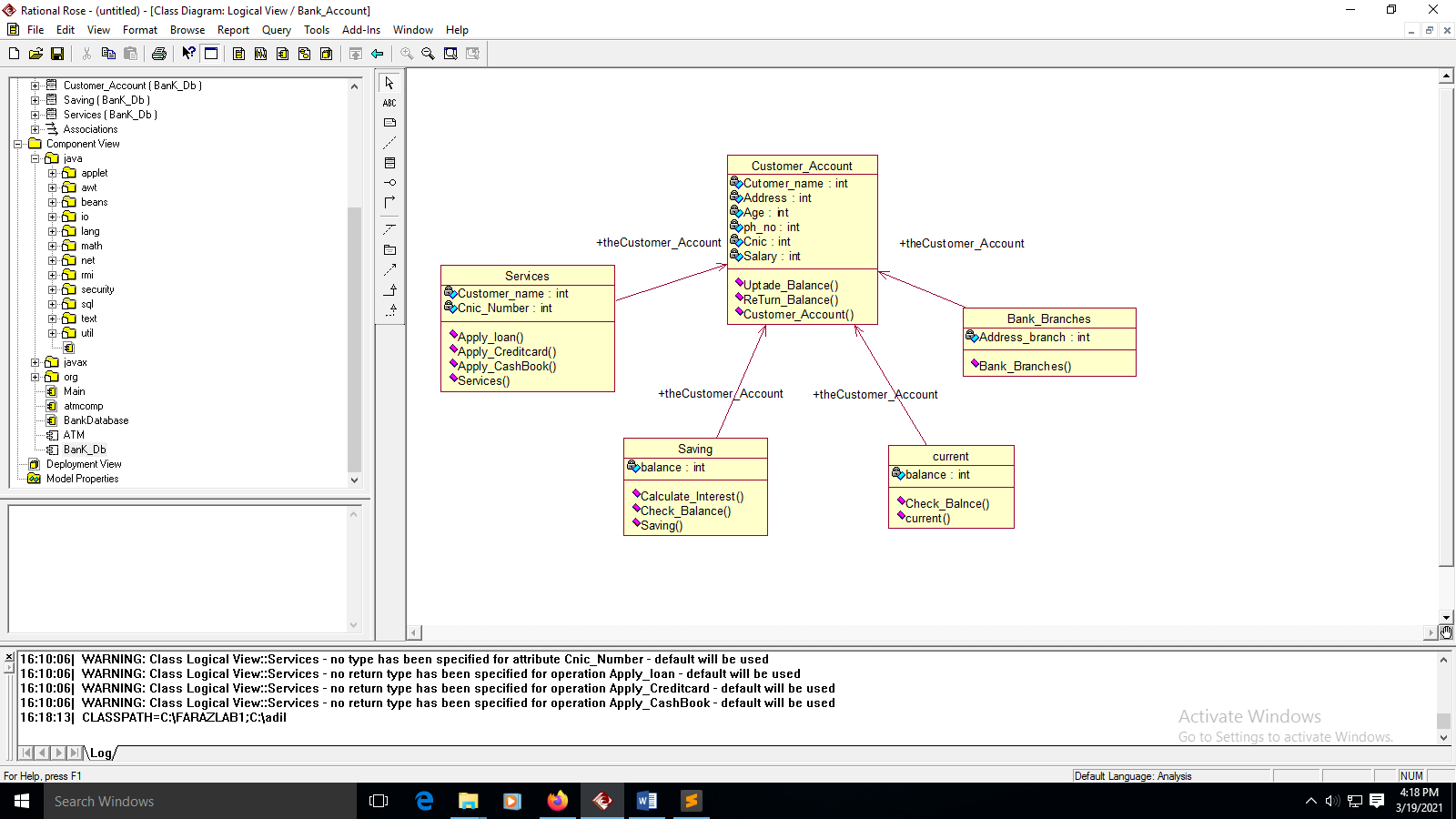
**Solution: & OUTPUT**:component 1:

Bank is the main module and further break into 4 components

Forward Engineering:



Reverse Engineering:

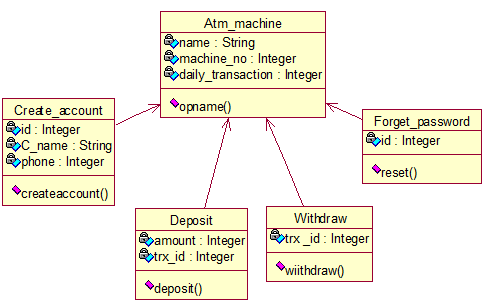


**Task No. 1:** Create 4 Components Each Component contains at least 5 Classes

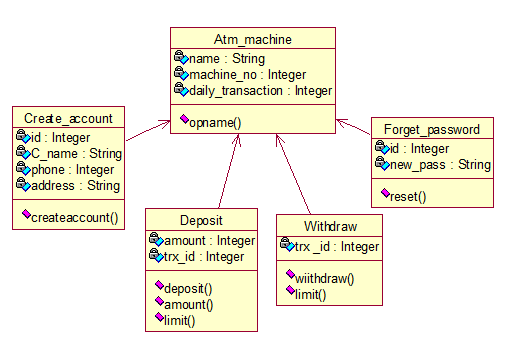
**Solution: & OUTPUT**:

*component 2:*

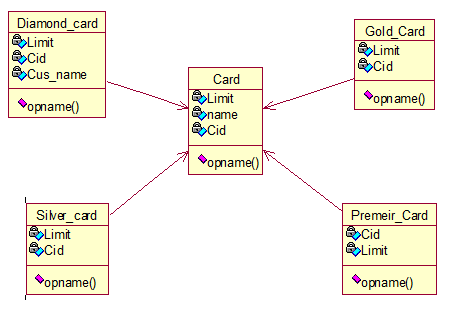
Forward Engineering:



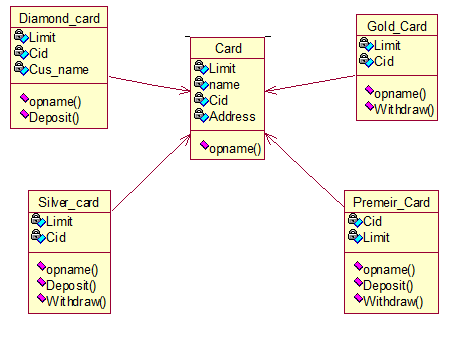
Reverse Engineering:



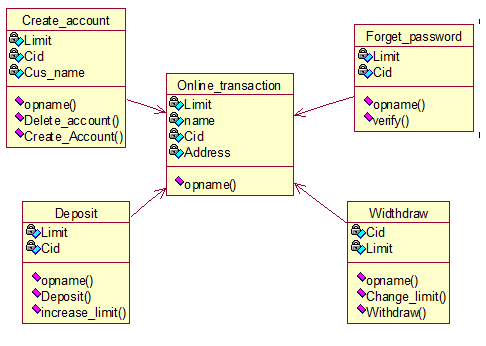
Forward Engineering: *component 3:*



Reverse Engineering:



Forward Engineering: *component 4:*



Reverse Engineering:

