DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT CODE: 20CS2205

ELEMENTS OF SOFTWARE CONSTRUCTION TUTORIAL WORKBOOK

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Name of the Tutorial #1,-- How to use Star UML and How to draw use case,Class,Sequence ,Activity and State chart diagram, Library Management System(LMS) by using star UML

Date of the Session: **Time of the Session: 4 to 5**

Prerequisite:

- **Software Engineering Methodologies..**
- **Download the Star UML.**
- **Basics of Software Engineering.**

Pre-Lab Task:

1. UML Full form

a) Uniform modeling Line
b) unified modeling language
c) Unilaterial modeling language
d) Unified Modeling Line

A: B (Uniform modeling Line)

2. Which of the following UML diagrams has a static view?

a) Collaboration
b) Use case
c) State chart
d) Activity

A: B

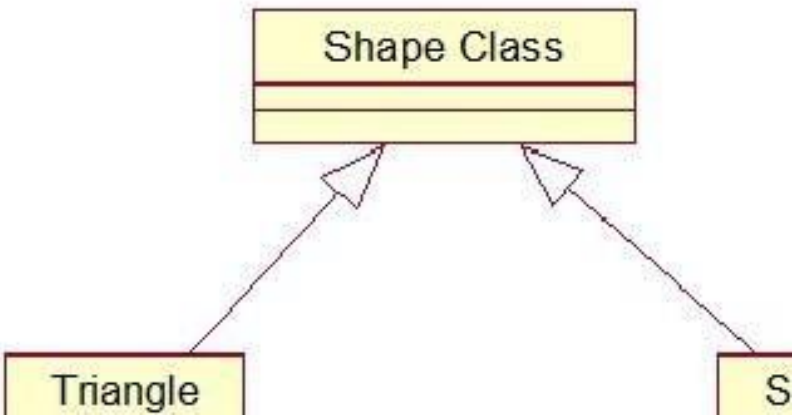
3.What type of core-relationship is represented by the symbol in the figure below?

a) Aggregation
b) Dependency

c) Generalization
d) Association

A: A

4. What type of relationship is represented by Shape class and Square ?



a) Realization
b) Generalization
c) Aggregation
d) Dependency

A: B

In Lab Task:

1. Detail the Steps involved in downloading Star
2. UML : *Name of the software: Star UML,*
   *Version: 2.8.0(*http://staruml.io/download*).*
   after downloading how to open the software

3. After downloading details how to open the software

4. Explain five windows in the interface of star uml

five windows in the interface of star uml

1) Working diagram Window- in this window the diagrams which we are able to draw

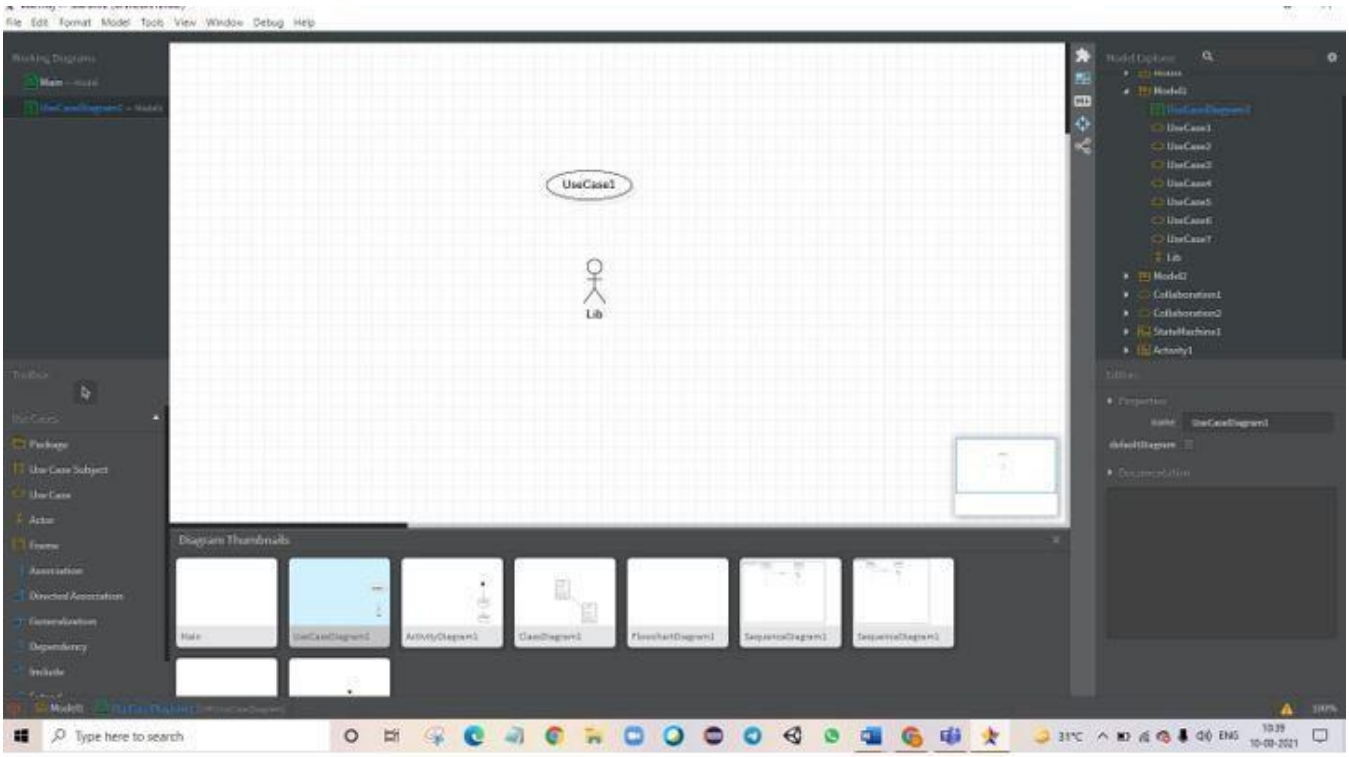
2) Tool box window- in this window the tools are displayed for the concerned diagrams

3) Main window- it is the location where we draw the diagrams

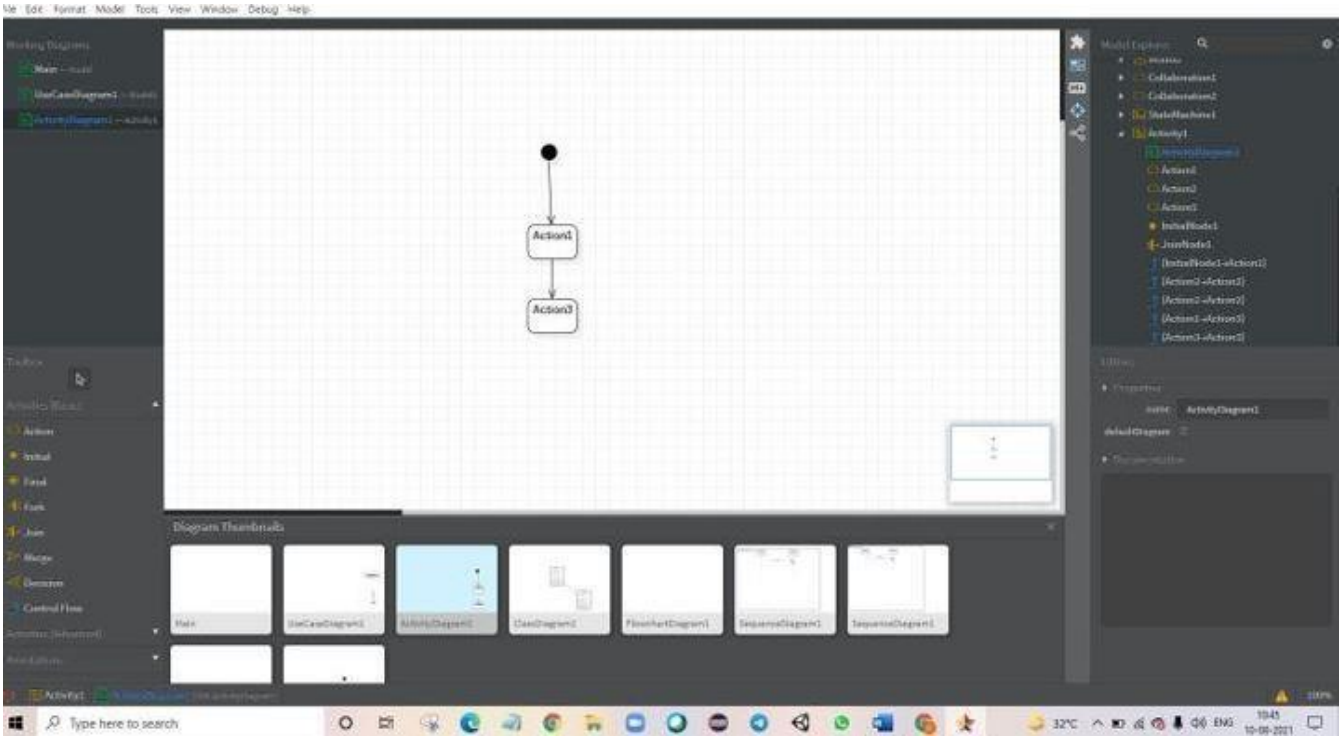
4) model explorer window- all the tools with their names are displayed

5) stlyes window- the apperance of each tool like color, font style etc are used from this window

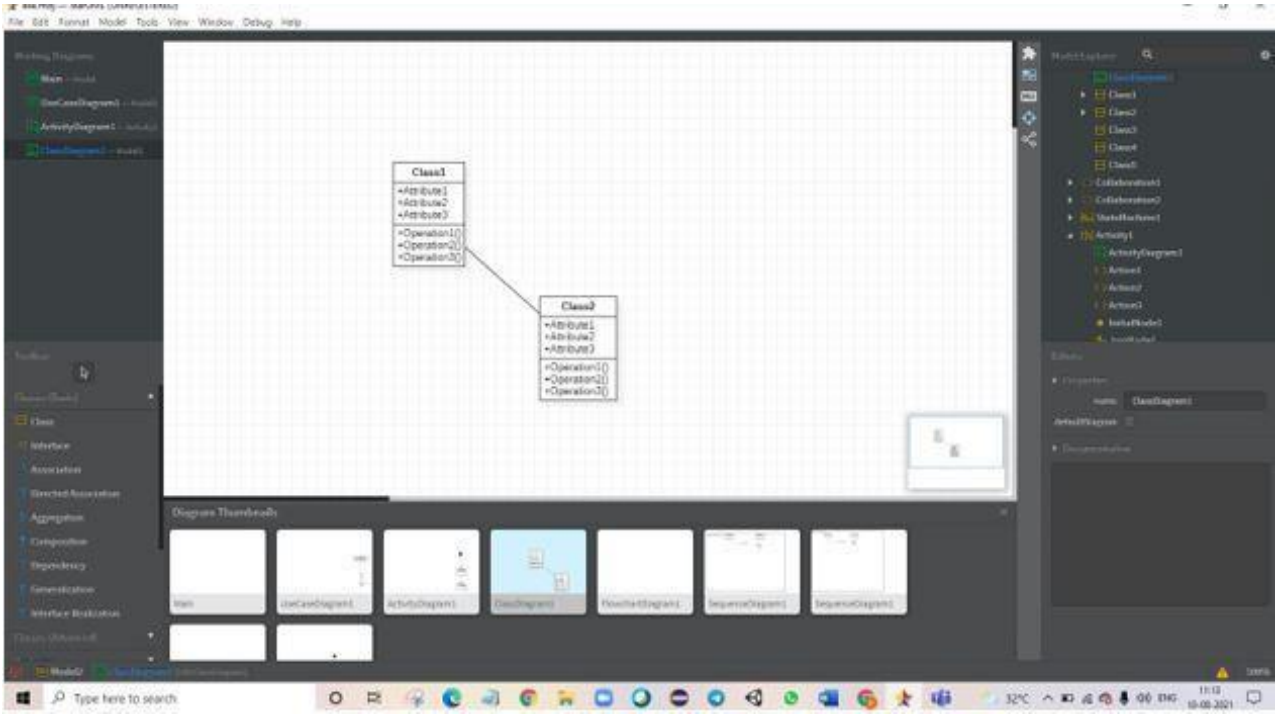
The Procedure of drawing a use case diagram:



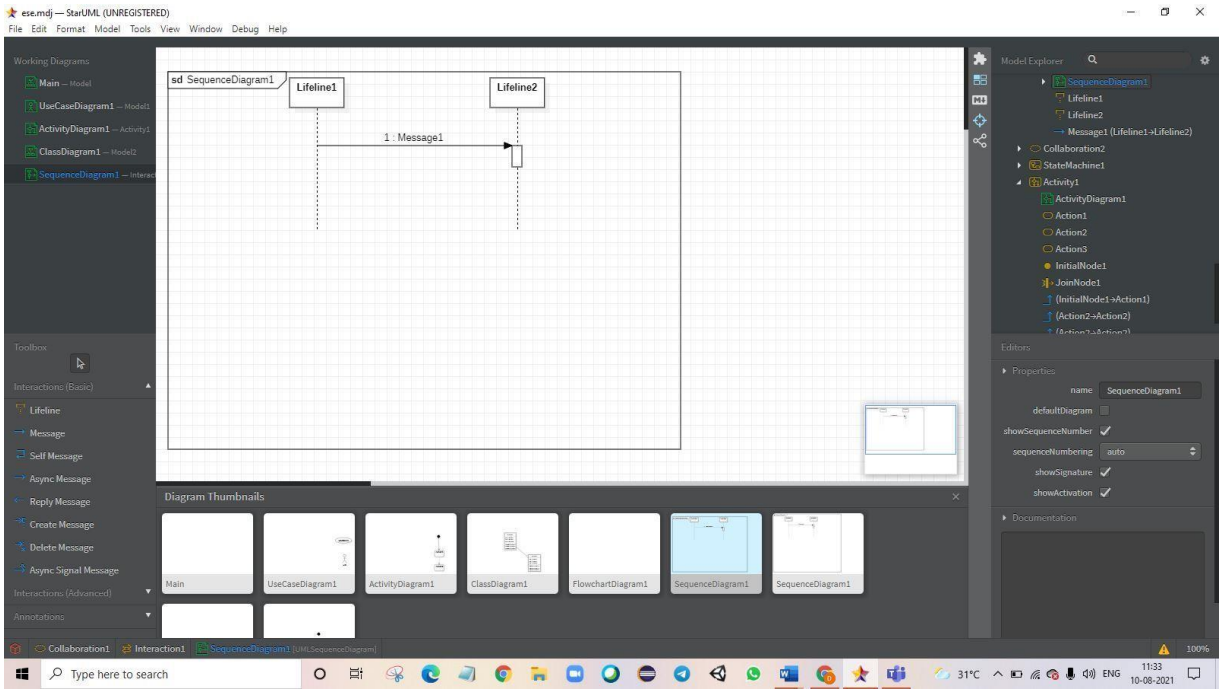
The Procedure of drawing a activity diagram:



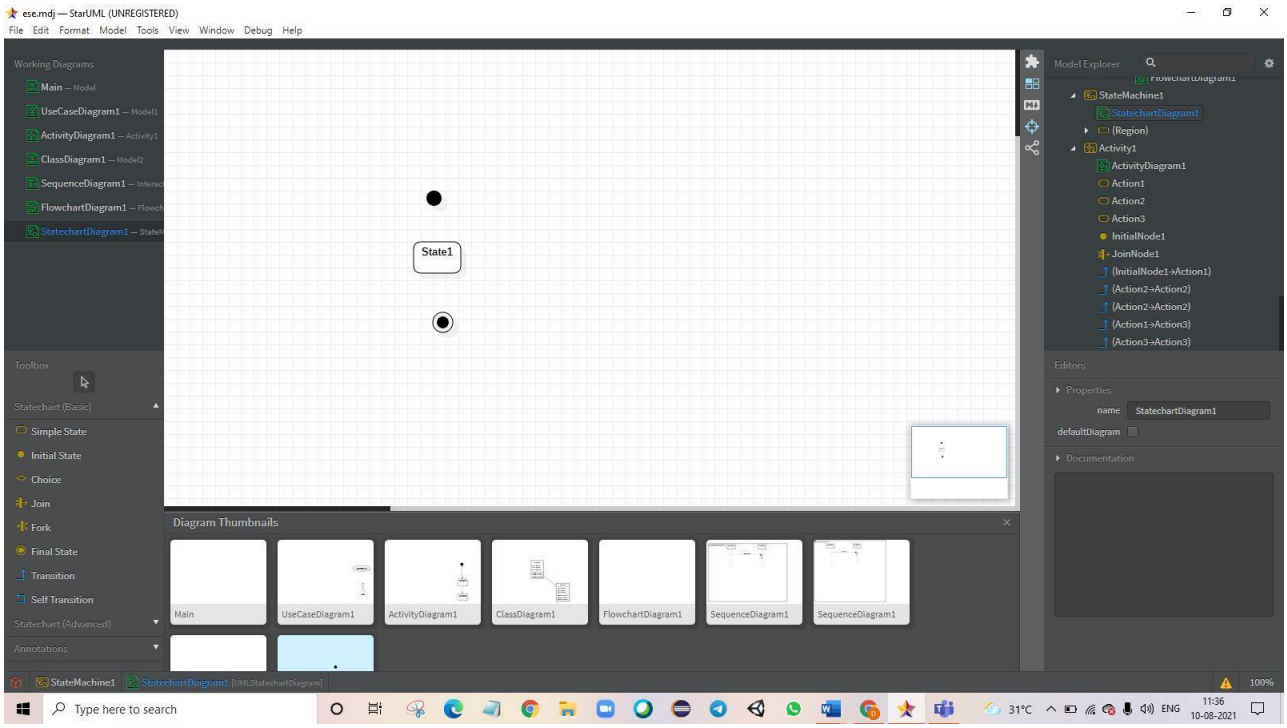
The Procedure of drawing a class diagram:



The Procedure of drawing a sequence diagram:



The Procedure of drawing a state chart diagram:



Comment of the Evaluator (if Any)	Evaluator's Observation MarksSecured:_____out of_____ Full Name of theEvaluator: Signature of the Evaluator Date of Evaluation: