



**King Fahd University of Petroleum & Minerals**  
**College of Computing and Mathematics**  
**Information and Computer Science Department**  
**SWE 206: Introduction to Software Engineering (2-3-3)**  
**Second Semester 2023-2024 (232)**  
**Lab11: UML State Transition diagram**

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**Objectives:**

To gain experience with:

- Design UML State Transition Diagram
- Use CASE Tools to model a State Transition Diagram

**Task:**

Design the UML State Transition Diagram for Mario from the original Super Mario game.

- Identify the possible states for Mario
- Identify the possible actions within each state
- Figure out the events that change Mario's states and link the states to each other

**Submission:**

Submit one single PDF file (in Blackboard) that has the following structure:

- a) Cover page has the course name, lab number, lab topic, group section and number, students' names, and IDs.
- b) Page listing each member contributed tasks.
- c) The UML State Transition Diagram