# LEARNING OBJECTIVES FOR THIS LESSON

* Sprint Execution
* Daily Scrum Meeting – Day 1
* Test Driven Development – Part I

Pay attention to your lecturer and take notes. This worksheet is to be submitted individually.

# TASKS FOR THIS LESSON

Sprint Execution

1. Identify the following items in the Sprint Execution based on the diagram in your PPT Slide:

|  |  |
| --- | --- |
| Input: | Sprint Backlog |
| Duration: | Usually 2- 3 weeks |
| Key activities: | Daily stand-up meeting, Coding, Testing |
| Output: | Shippable product increment |
| Participants: | The Scrum team |

### **Daily Scrum – Day 1**

1. Perform the daily stand-up meeting with your team and input your answers to the 3 questions below.

Additional Notes:

* Refer to your team’s “SprintBacklog\_BurndownChart.xlsx” file from Lesson 09 (*or use the Sprint Backlog provided in the student folder*) and make sure that all team members has some tasks assigned.
* Assuming you are attending the daily stand-up meeting on day 1 of sprint 1
  + The Plan for day 1 is to develop user story 1 (add new items) and user story 4 (view all available items).

|  |  |
| --- | --- |
| **Questions** | **Answer** |
| What did you do yesterday? | Planing out the first sprint |
| What will you do today? | To code for to add new items and view all available items |
| Are there any impediments in your way? | Code bugs |

### **Test Driven Development**

1. Observe the *lecturer’s demonstration* of the TDD process to develop the user story 1.

You may follow the demonstration using the guide **US\_01\_TDD.**

1. Now is your turn to perform TDD process to develop the user story 4 (view all available items).
   * Follow the process shown in US\_01\_TDD as close as possible.
     1. Create the user interface in **resourcecentre.py**.
     2. Design the unit test cases for the **getAvailableCamera()** and **getAvailabeLaptop()** methods.

|  |  |  |
| --- | --- | --- |
| **User Story 4:**  As a Resource Centre staff member, I want to be able to view a list of all available laptops and digital cameras so that I can quickly see which items are currently available for loan.  Given that I am a Resource Centre staff member, when I access the system, then I can view a list of all available laptops and digital cameras.  **Acceptance Criteria**:   * The list should display the asset number tag, model description, and operating system for laptops. * The list should display the asset number tag, model description, and optical zoom capability for digital cameras. * The list should only show items that are currently available for loan. | | |
| **No.** | **Unit Test Case** | **Expected Result** |
| 1 | View an empty digital camera in inventory  View an empty digital camera  Assert Tag:  Description:  Optical zoom: | There is no digital camera to display. |
| 2 | View a list of digital cameras in inventory  View list of digital cameras  Assert Tag: C001, C002  Description: Test camera 1, Test camera 2  Optical zoom: 5, 10 | The list of digital cameras will be viewed in the inventory. |
| 3 | View a list of available digital cameras in inventory  View list of available digital cameras  Assert Tag: C001, C002, C003  Description: Test camera 1, Test camera 2, Test camera 3  Optical zoom: 5, 10, 6 | The available list of digital cameras will be viewed in the inventory. |
| 4 | View an empty laptop in inventory  View an empty laptop  Assert Tag:  Description:  Optical zoom: | There is no laptop to display. |
| 5 | View a list of laptops in inventory  View list of laptops  Assert Tag: L001, L002  Description: Test Laptop 1, Test Laptop 2  Os: WINXP, MACOS | The list of laptops will be viewed in the inventory. |
| 6 | View a list of laptops in inventory  View list of laptops  Assert Tag: L001, L002, L003  Description: Test Laptop 1, Test Laptop 2, Test Laptop 3  Os: WINXP, MACOS, WINXP | The available list of laptops will be viewed in the inventory. |

* + 1. Create the unit test cases for the **getAvailableCamera()** and **getAvailabeLaptop()** methods. (The test cases will fail.)
    2. Code the **getAvailableCamera()** and **getAvailabeLaptop()** methods in **inventory.py**. (Ensure the test cases pass.)