

# Laboratory Exercise

## Introduction to Operating Systems (OS)

### Objective(s):

At the end of the exercise, the students should be able to:

- Determine the key functions of operating systems; and
- Analyze the concept of some operating systems.

### Instructions:

1. Select a computing device or gadget (i.e., smartphone, tablet, and laptop) that you currently have access to. Then, retrieve the following details about the device (5 points):

**Device Brand/Model:** \_\_\_\_\_

**Operating System (OS):** \_\_\_\_\_

**OS Version/Build:** \_\_\_\_\_

**Size of the RAM:** \_\_\_\_\_

**Processor:** \_\_\_\_\_

**Display Quality:** \_\_\_\_\_

*Note: The availability of the details may vary depending on the type of device. If some details are not available, leave the fields blank.*

2. Answer the following items in 3 to 5 sentences only (5 items x 5 points):
  - a. Describe the performance of your device.
  - b. In your opinion, does the operating system affect the overall performance of your device? Why or why not?
  - c. Give five (5) installed applications that greatly affect the processing speed or performance of your device.
  - d. In your perspective, is there a possible relationship between the processor and the display quality of your device? Rationalize your answer.
  - e. Operating System, RAM, or Processor. Which among the three would you upgrade first and why?
3. Search for another example of an operating system (aside from the operating systems that are already included in the handout) and examine its architecture and specifications. Then, answer the following items:
  - a. What is the name of the operating system? (2 points)
  - b. What is the latest version of the operating system? (2 points)
  - c. Who developed the operating system? (3 points)
  - d. Cite your reference(s). (3 points)
  - e. Describe the internal architecture of the operating system. (5 points)
  - f. What makes the operating system unique? Rationalize your answer. (5 points)

### Grading Rubric:

Criteria	Performance Indicator	Points
Content	Correct ideas, concepts, and/or examples were included.	3
Organization	The presentation of ideas was generally organized.	2
TOTAL		5

*Note: DO NOT COPY AND PASTE. Students who copy and paste their work from any website or their classmates will automatically receive a failing mark for this assessment task.*