

Laboratory Exercise

Movie Time

Objective:

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

- Implement queues in both Java and Python.

Software Requirements:

- NetBeans IDE
- Java Development Kit (JDK) 8
- Python 3.7 or higher

Procedure:

1. Create a folder named *LastName_FirstName* in your local drive. (ex. Reyes_Mark)
2. Using NetBeans, create a Java project named **MovieTime**. Set the project location to your own folder.
3. Import **Scanner**, **Queue**, and **LinkedList** from the **java.util** package.
4. Create two (2) **Queue** objects named **movies** and **snacks**.
5. The output shall:
 - 5.1. Ask the user to input three (3) movies that s/he would like to watch in a cinema.
 - 5.2. Ask the user to input three (3) snacks or beverages that s/he would like to eat or drink while watching these movies.
 - 5.3. Display all the movies and snacks in separate lines.
 - 5.4. Ask the user to type **S** whenever s/he is done eating or drinking a snack.
 - 5.5. Display the snacks remaining each time **S** is pressed and **"No more snacks"** when all snacks are eaten.
6. Convert your code into a Python script.
7. Save the script as **movie_time.py** to your folder.

Sample output in Python:

```
Enter movie 1 of 3: The Conjuring 3
Enter movie 2 of 3: Fast & Furious 9
Enter movie 3 of 3: Godzilla vs. Kong
Enter snack 1 of 3: Popcorn
Enter snack 2 of 3: Cheesedog
Enter snack 3 of 3: Milk tea
Movies to watch are: deque(['The Conjuring 3', 'Fast & Furious 9', 'Godzilla vs. Kong'])
Snacks available are: deque(['Popcorn', 'Cheesedog', 'Milk tea'])
Press S each time you finish a snack.
S
deque(['Cheesedog', 'Milk tea'])
S
deque(['Milk tea'])
S
No more snacks
```

GRADING RUBRIC (100 points):

Criterion	Description	Max Points
Correctness	The code produces the expected result.	40
Logic	The code meets the specifications of the problem.	40
Efficiency	The code is concise without sacrificing correctness and logic.	10
Syntax	The code adheres to the rules of the programming language.	10