

## Lab 2

Write a Java program that allows the user to enter arbitrary number of characters or digits (one at a time then store them in a singly linked list. Then use that list to print all the input in one line so that all the digits appear before all the characters.

**Hint:** you can use `Character.isDigit()` to check whether a character is a digit

### Non-functional requirements

- Write your own singly linked list class
- The main function should be in a class on its own
- There's 2 marks for readability so pay attention to the formatting and the naming while writing your code.

### Submission Instructions

- Compress the entire NetBeans project and submit it to the assignment on OWL, or submit the Java files if you're using a different IDE
- You are expected to work on this assignment as an individual. Any violation to academic integrity will result in a zero mark.
  - o I understand that some students find a sort of unhealthy fulfillment in cheating the system, but you'd find much better fulfillment if instead you put your energy into building real competence that will help you get a good job with high payment.

### How is the lab conducted?

- The lab assignment will be posted on Friday and will be due on the next Friday (24hrs after the last lab)
- Late submissions will be accepted until the next Monday (12:30) with 10% late penalty for each late day.
- If you have any question
  - o Imagine you'd win 1000\$ if you figured it out on your own and try it first (you'd actually win much more since it's a skill that you'd need throughout your career)
  - o If you couldn't figure it out and you're ready to lose the 1000\$
    - Join the Zoom meeting of your lab (only the one you registered for)
    - Raise your hand and wait for the TA to take your question
- It's better for you to work on it and submit it during your allocated lab time (or 24hrs after), because you have other things to do, and last-minute questions are not likely to be addressed