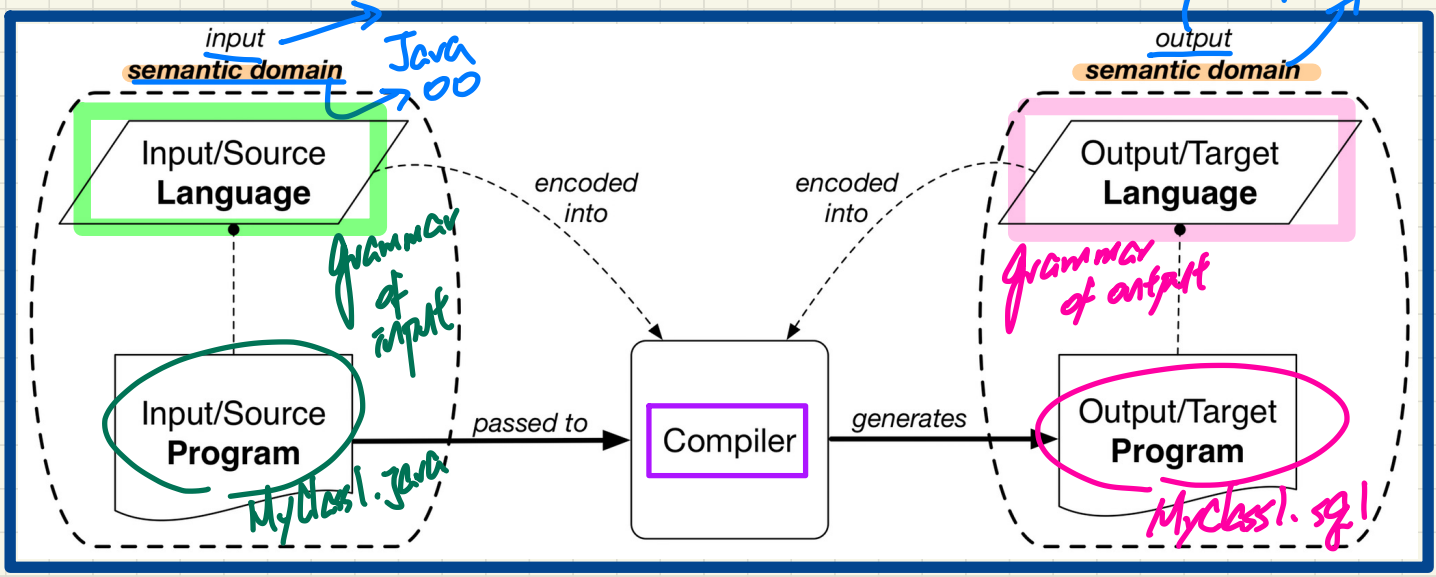


## Lecture 1 - Sep. 8

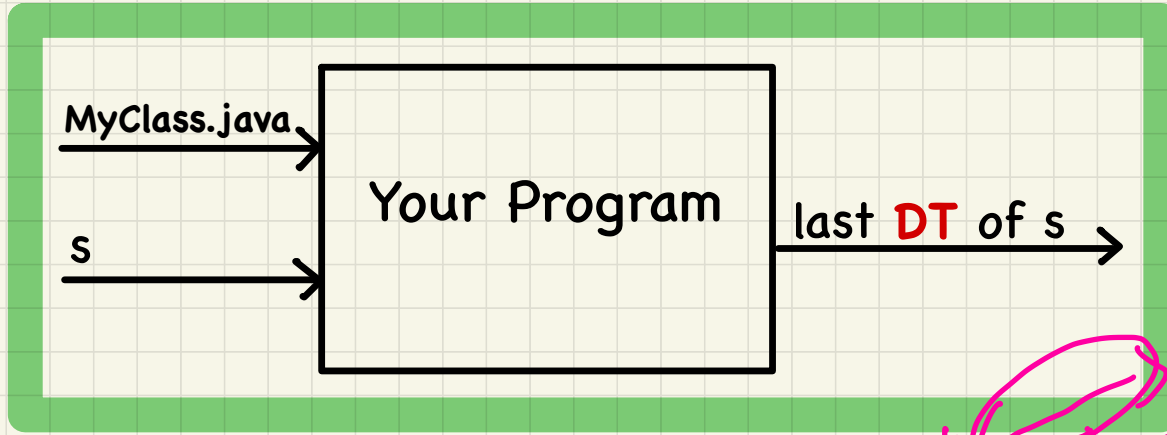
# Syllabus & Overview of Compilation

***Stages of a Compiler:  
Lexical, Syntactic, Semantic***

# What is a Compiler?



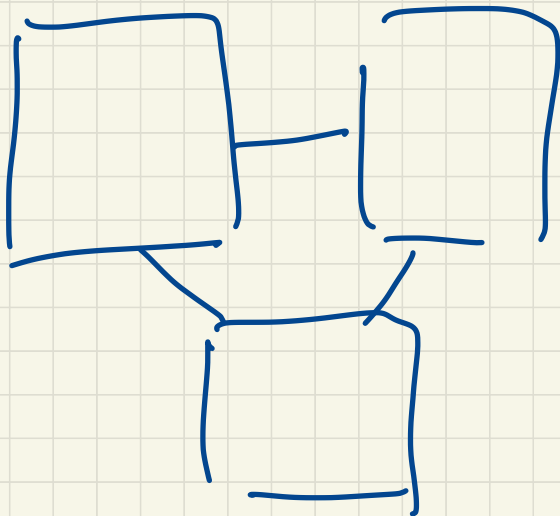
# An **A+** Challenge: Inferring the **DT** of a Variable



```
class MyClass {  
    main (...)  
    → Student s = ...;  
    → ...  
    → s = new ResidentStudent(...);  
}
```

*while* (circled in pink)  
*best: simulate the prog. and see/check the last DT*

# Modularity



# Regression

