ENSF 409
Lesson 1 - Notes

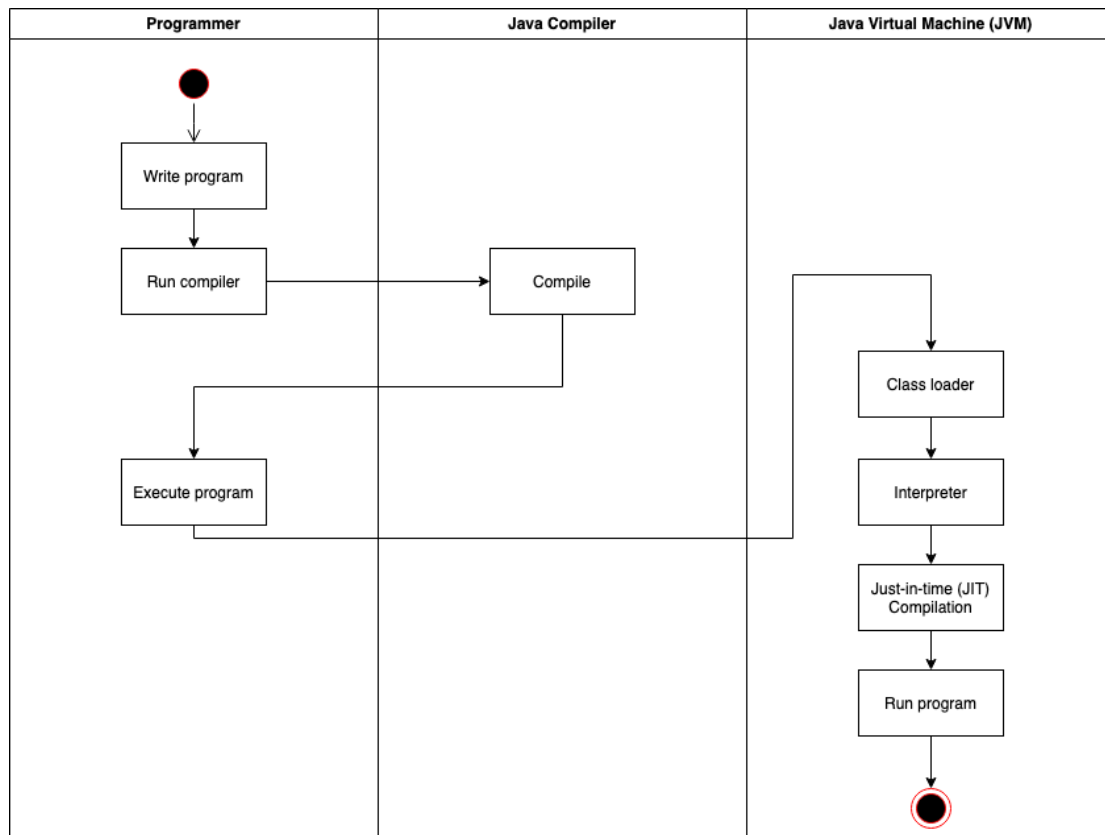## Summary

Learning objectives
- Knowledge
    - Execution of a Java program
    - Java primitive data types
    - Casting of primitive data types
- Skills
    - Write a simple Java program
    - Write comments in a Java program
    - Write documentation in a Java program
    - Use the Java commands:
        - javac
        - java
        - javadoc

Related textbook reading
- Chapter 1: An Introduction to Java
- Chapter 2: The Java Programming Environment
- Chapter 3: Fundamental Programming Structures in Java

Quick Guide

Execution of a Java program

Primitive data types

Type	Contains	Bit size	Default value	Value range
boolean	true or false	1	false	true/
char	Unicode chars	16	\u0000	\u0000 to \uffff
byte	signed integer	8	0	-128 to 127
short	signed integer	16	0	-32768 to 32767
int	signed integer	32	0	-2^{31} to $2^{31}-1$
long	signed integer	64	0	-2^{63} to $2^{63}-1$
float	floating point	32	0.0	
double	floating point	64	0.0	

For more information, refer to
https://docs.oracle.com/javase/specs/jls/se8/html/jls-4.html#jls-4.2.3