

Project

[Submit Assignment](#)

Due Dec 11 by 11:59pm **Points** 100 **Submitting** a file upload

- Your **.jjt** file and a zip file of your **src** directory.
 - Name the zip file after your team name.
- A written report (5-10 pp.) that includes:
 - A high-level description of the design of the compiler.
 - UML diagrams of the major classes are acceptable.
 - The grammar for your source language, either as syntax diagrams or in BNF (use JJDoc!).
 - Code templates that show the Jasmin code your compiler generates for some key constructs of the source language.
- Sample source programs to compile and execute on the JVM.
- Text files of the output from executing your source programs.

Criteria	Ratings				Pts
Data types with type checking	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Basic arithmetic operations with operator precedence	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Assignment statements	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Conditional control statements	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Looping statements	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Procedures/functions with call and return	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Parameters passed by value or by reference	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Basic syntax error recovery	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Nontrivial sample source programs	Full Marks 10.0 pts	Good 7.0 pts	Basic 5.0 pts	No Marks 0.0 pts	10.0 pts
Generated Jasmin code.	Full Marks 10.0 pts	Good 7.0 pts	Basic 5.0 pts	No Marks 0.0 pts	10.0 pts
Execution of sample source programs with output	Full Marks 10.0 pts	Good 7.0 pts	Basic 5.0 pts	No Marks 0.0 pts	10.0 pts
No crashes	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts
Report: high-level description	Full Marks 5.0 pts	Good 3.0 pts	Basic 2.0 pts	No Marks 0.0 pts	5.0 pts

Criteria	Ratings				Pts
Report: syntax diagrams or other description of the grammar of major source language constructs	Full Marks 10.0 pts	Good 7.0 pts	Basic 5.0 pts	No Marks 0.0 pts	10.0 pts
Report: code templates for major language constructs	Full Marks 10.0 pts	Good 7.0 pts	Basic 5.0 pts	No Marks 0.0 pts	10.0 pts
Total Points: 100.0					