

Compiler Design Project



Maurya Jadav
Shubham Kumar
Priyanka Meena

Java Basic Feature Implemented

Primitive data types (e.g., int, long, float, double, and boolean) until milestone 3

Multidimensional arrays. Only C-style declarations supported (e.g., int a[][] = ...).
Basic operators (all included till milestone 3)

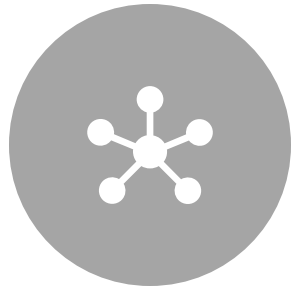
Arithmetic operators: +, -, *, /, %, ++, --
Preincrement, predecrement, postincrement, and postdecrement
Relational operators: ==, !=, >, <, >=, <=
Bitwise operators: &, |, ^, ~, <<, >>
Logical operators: &&, ||, !
Assignment operators: =, +=, -=, *=, /=, &=
Ternary operator

Control flow via if-else, for, and while.
Methods and method calls, including both static and non-static methods
Support for recursion
Support the library function println() for only printing the primitive types listed earlier

Support for classes and objects. For class definitions, support public and private access modifiers.

Any number of nested loops for upto 3AC and runtime.

Optional Features Supported



Multidimensional arrays
dimensions > 3



Public, Private and Static



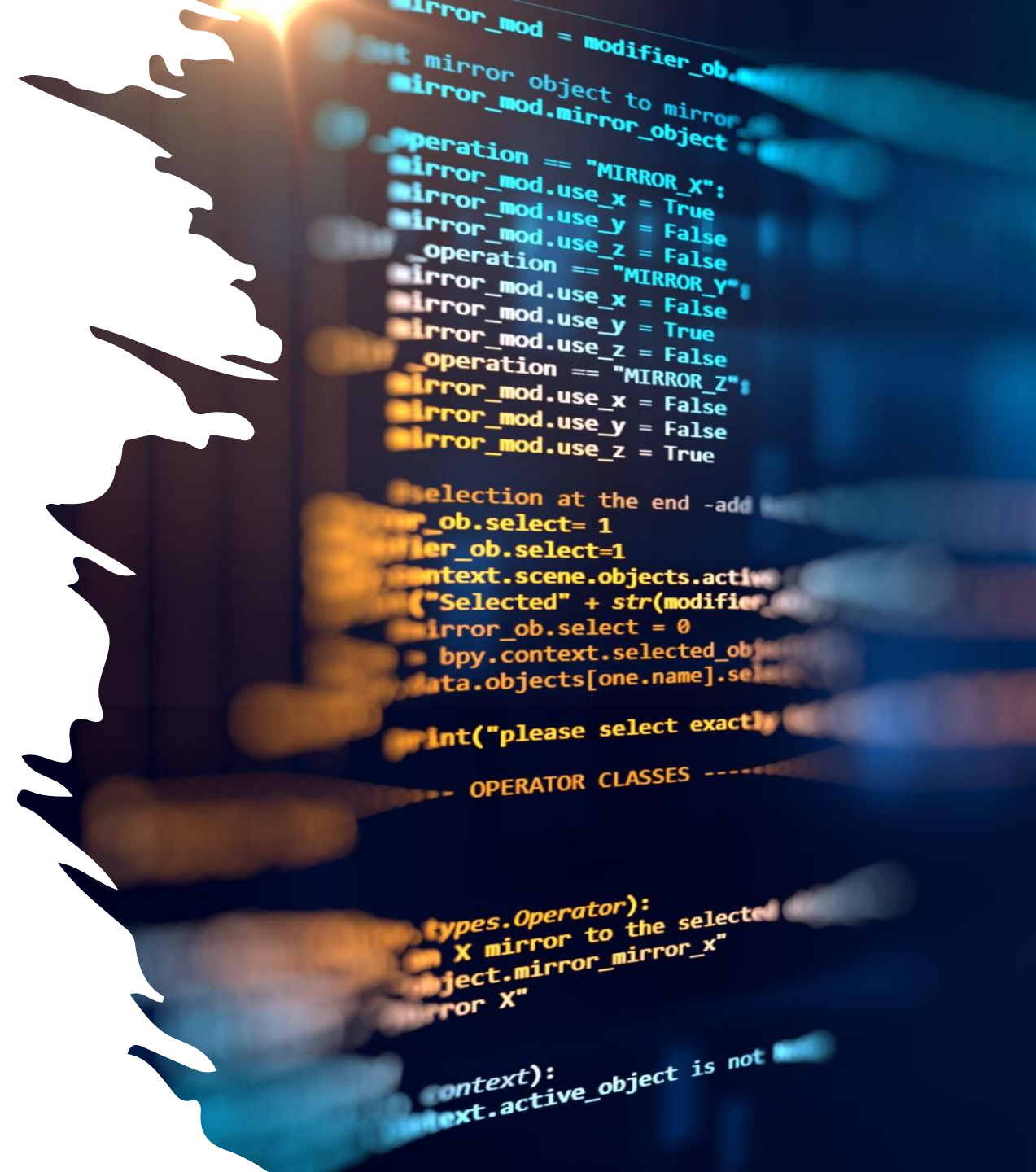
import statements like
`import java.util.*`



Support for Break,
Continue, Return .

Command Line and Test Cases

- **Command Line instructions: Test Cases**
- > python3 script.py
- **Test Cases**
- > provide the complete path to test case folder
- **Output**
- > contain a folder corresponding to test case which contain .dot file, AST png, symbol Table, 3AC and code.asm

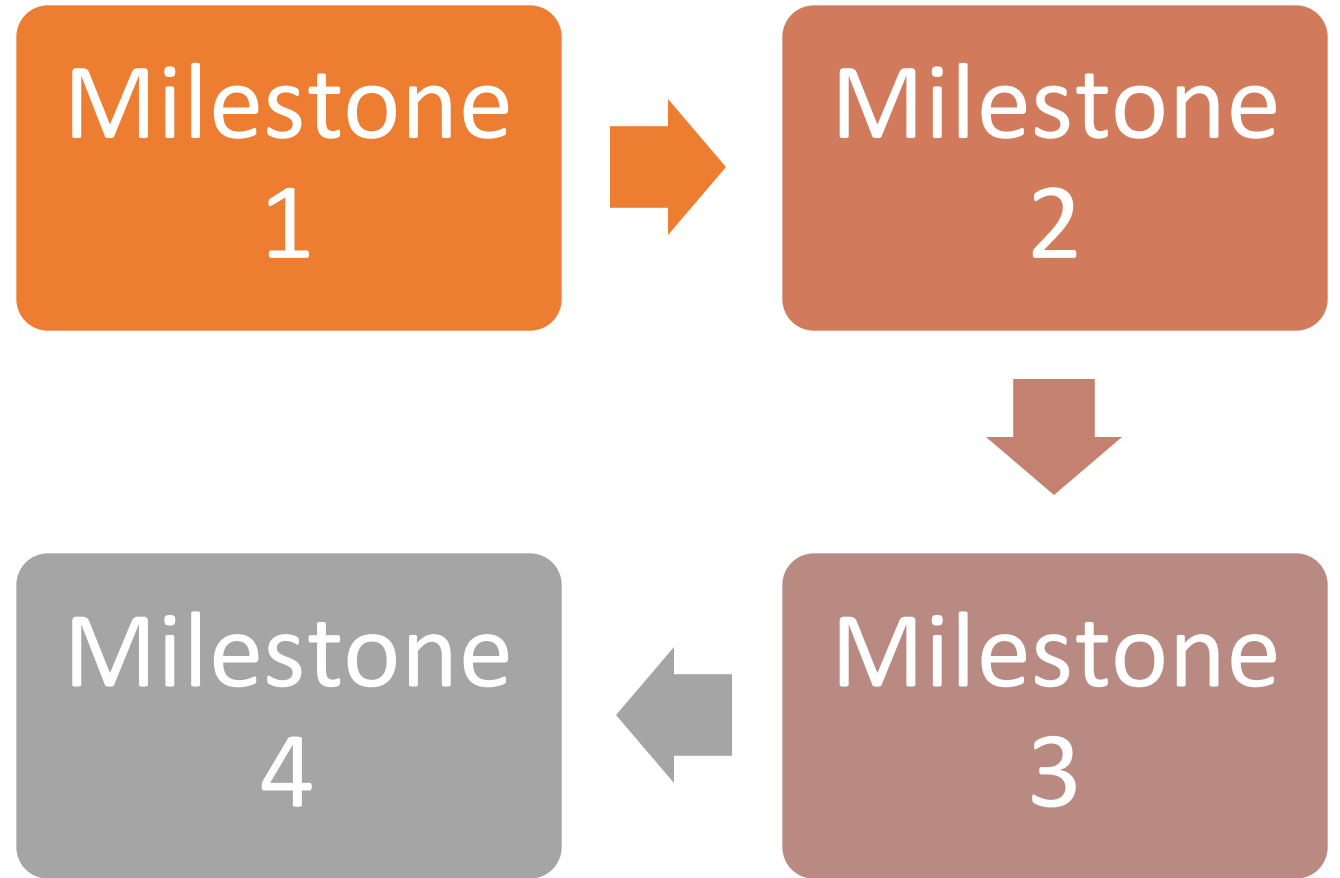


An aerial night view of a city, likely New York City, with numerous skyscrapers and a complex highway interchange. Overlaid on the cityscape is a network of glowing yellow lines that arc between various points, suggesting a global or digital connectivity theme. The lines are semi-transparent and have a soft glow at their endpoints.

Link to the GitHub Repository

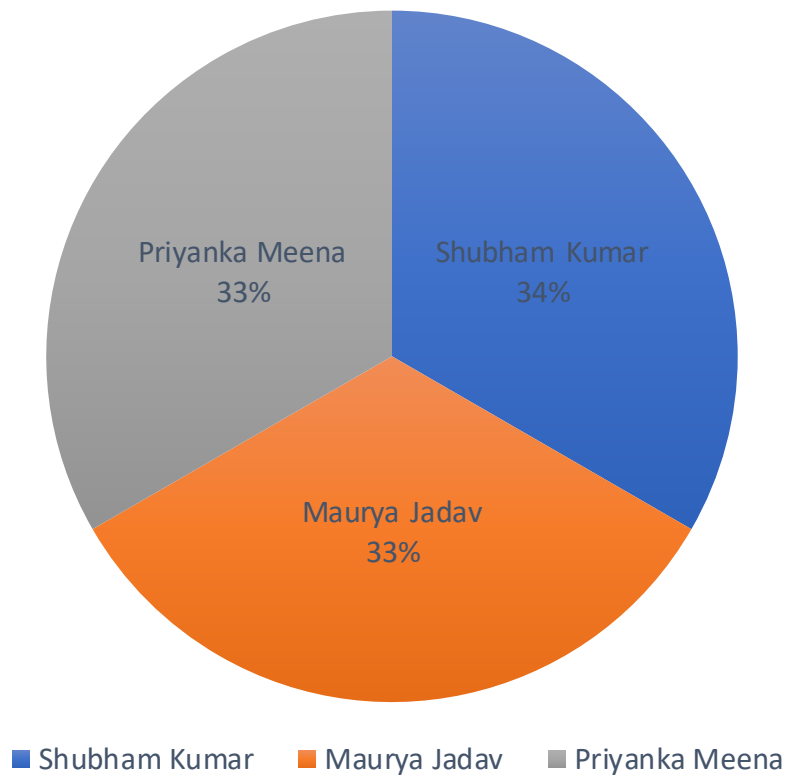
To access our private GitHub repository and view the code, please follow this link - [GitHub Repo](#)

Journey of
project



Overall Effort Sheet for Our Group

Contribution Percentage



Thank you