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Compilers

User Manual for Compiler

To use this compiler:

1. Locate the "ayavacacompiler.jar" file in the "Product" folder
2. Locate the Mini-pascal (.pas) file you would like to compile, in the case of this compiler, we would use a text file
3. Put both files in the same directory
4. Use the command line to navigate to files
5. Run the following command: java -jar ayavacacompiler.jar input.txt
   Where input.txt is the name of your pascal file you would like to compile

Example of using compiler:

program <u>foo</u>;
begin
end
.

Is an example of the simplest pascal program:
Below is an image detailing how to use the jar

```
[luther-141-224-231-74:ayavacacompiler erikayavaca$ cd Product
[luther-141-224-231-74:Product erikayavaca$ ls
[CompilerUserManual.docx output.symboltable
[ayavacacompiler.jar     simplest.txt
[luther-141-224-231-74:Product erikayavaca$ java -jar ayavacacompiler.jar simplest.txt
```

Using the instructions above we get the following output in the command line:

```
match( PROGRAM)
match( ID)
[match( SEMICOLON)
match( BEGIN)
match( END)
match( PERIOD)
recognizer works
match( PROGRAM)
match( ID)
match( SEMICOLON)
match( BEGIN)
match( END)
match( PERIOD)
parser works
file ran with no errors
```

Limitations of this compiler:

- Does not have code generation working properly.
- Semantic analyzer is not working properly.
- Can only recognize valid pascal programs and parse the simplest pascal program.
- Parser is not creating nodes properly.