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# User Manual

To use the Mini-pascal to MIPS assembly compiler:

1. Locate the "compiler.jar" file in the "product" folder
2. Locate the Mini-pascal (.pas) file you would like to compile
3. Put both files in the same directory
4. Navigate to that directory from the command line
5. Run the following command:

   ```
   java -jar compiler.jar input.pas
   ```

   Where input.pas is the name of your pascal file you would like to compile

6. An assembly file, input.asm, will be generated in that directory. Open that file in QtSpim, which can be downloaded from http://spimsimulator.sourceforge.net/
7. Run in QtSpim by clicking the green arrow button along the toolbar on the top

**Common errors:**

Error: Invalid file path or permissions for input

- Solution: ensure the path and name of input file are correct and the program has permission to read the input file. Also, ensure you are passing in a file and not a directory

Error: Match of PROGRAM found ID instead. Line: 1
Error: Match of SEMI found ID instead. Line: 1
Error: Match of BEGIN found ID instead. Line: 1
Error: test not found in symbol table. Line: 1
Error: Match of END found ID instead. Line: 1
Error: Match of PERIOD found ID instead. Line: 1
Exception in thread "main" java.lang.NullPointerException
    at codefolding.CodeFolding.foldStatement(CodeFolding.java:57)
    at codefolding.CodeFolding.foldProgram(CodeFolding.java:42)
    at compiler.CompilerMain.main(CompilerMain.java:63)

- Solution: if you see an error like this, there is a problem with the syntax of your input file. The parser is trying to match token and invalid tokens are found. Check the syntax of your mini-pascal file and ensure it follows the grammar, which can be found in the documentation folder.