

Convert VHDL to PDF

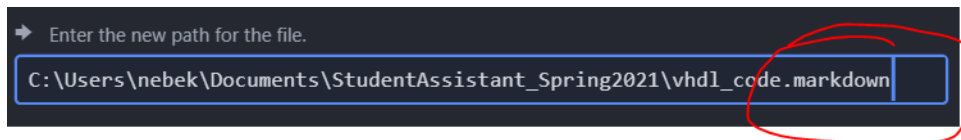
Objective: take code written in VHDL through vivado and convert it into a PDF, ready for sharing and submission.

What you'll need:

- Software:
 - Atom.io
 - <https://atom.io/>
 - An online file type converter from HTML to PDF

Procedure:

1. Open atom
2. In the toolbar, select File -> Settings
3. In the side menu select *Install*
4. Search for and install the following packages
 - a. language_markdown
 - b. markdown_writer
 - c. markdown_preview
5. Back in the toolbar, select File -> New File
6. Copy and paste your VHDL code into this file
7. At the top of the file tab, where it says the name of the file, right click and select *Rename*.
 - a. Add the ending .markdown making it a markdown file



8. On the first line of your code add the line ````sql`

This will create syntax highlighting for sql, which is the closest option to vhdl available

```
```sql
architecture Behavioral of practice is

begin
 --3-to-8-Line-decoder-----
 with sel select
 data <= "00000001" when "000",
 "00000010" when "001",
 "00000100" when "010",
 "00001000" when "011",
 "00010000" when "100",
 "00100000" when "101",
 "01000000" when "010",
 "10000000" when others;


end Behavioral;
```
```

- 9. Back in the toolbar, select Packages -> Markdown Preview -> Toggle Preview
- 10. Go to the preview and right click, select *Save as HTML*

```
vhdl_code.markdown Preview

architecture Behavioral of practice is

begin
  --3-to-8-Line-decoder-----
  with sel select
    data <= "00000001" when "000",
           "00000010" when "001",
           "00000100" when "010",
           "00001000" when "011",
           "00010000" when "100",
           "00010000" when "101",
           "00010000" when "110",
           "00010000" when "111";
end Behavioral;
```



| | |
|----------------------------|--------------|
| Undo | Ctrl+Z |
| Redo | Ctrl+Y |
| Cut | Ctrl+X |
| Copy | Ctrl+C |
| Paste | Ctrl+V |
| Delete | Del |
| Select All | |
| Split Up [Ctrl+K Up] | |
| Split Down [Ctrl+K Down] | |
| Split Left [Ctrl+K Left] | |
| Split Right [Ctrl+K Right] | |
| Close Pane [Ctrl+K Ctrl+W] | |
| Change Encoding | |
| Correct Spelling | |
| Go to Declaration | |
| Show In Explorer | |
| Convert to PDF | |
| Save As HTML... | Ctrl+Shift+S |
| Copy As HTML | Ctrl+C |

11. Go to your online file converter and add your HTML file. Convert from HTML to PDF