

Laboratory work report template

discipline: Computer Architecture

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Content

1	Purpose of work	5
2	Task	6
3	Theoretical introduction	7
4	Laboratory work	8
5	Tasks for independent work	11
6	Conclusions	12
7	References	13

Illustration list

4.1	Updating changes in the course directory	8
4.2	Compiling the template	9
4.3	Checking	9
4.4	Deleting generated templates	10
4.5	Preparing the report	10
5.1	Completing the report on the 2nd lab	11

Table list

1 Purpose of work

the goal of this lab is to learn how to format reports using lightweight markdown makeup language.

2 Task

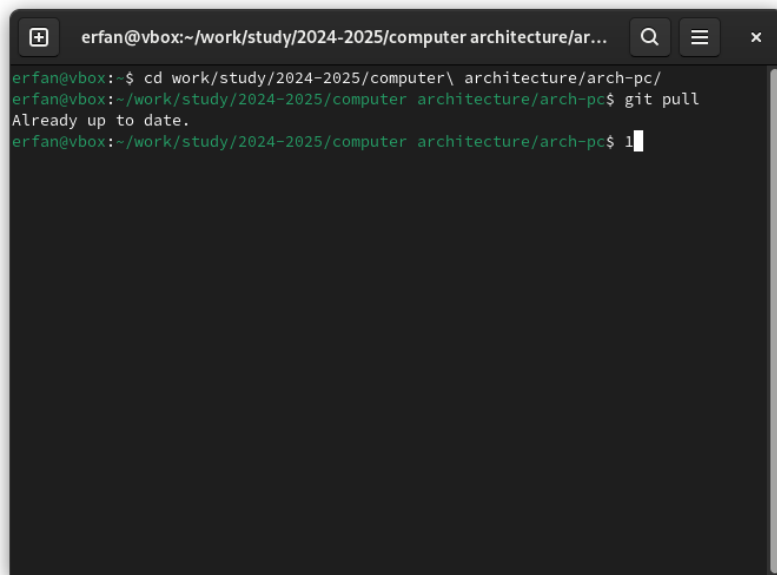
- installation of necessary software
- filling in the laboratory work report no-3 using the markdown markup language
- task for independent work

3 Theoretical introduction

Markdown is a lightweight markup language designed to designate formatting in plain text, with maximum human readability, and suitable for machine conversion into languages for advanced publications (HTML, Rich Text and others).

4 Laboratory work

In the terminal, I go to the course directory and update the repository from the remote one to GitHub. (fig. 4.1)

A terminal window with a dark background. The title bar shows the user 'erfan@vbox' and the current directory '~/work/study/2024-2025/computer architecture/arch...'. The terminal content shows the user navigating to the directory and running 'git pull', which returns 'Already up to date.'.

```
erfan@vbox:~$ cd work/study/2024-2025/computer\ architecture/arch-pc/  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc$ git pull  
Already up to date.  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc$ 1
```

Pic. 4.1: Updating changes in the course directory

I compile the template using the make command (fig:002), check the correct execution of the command using the ls command (fig. 4.3)

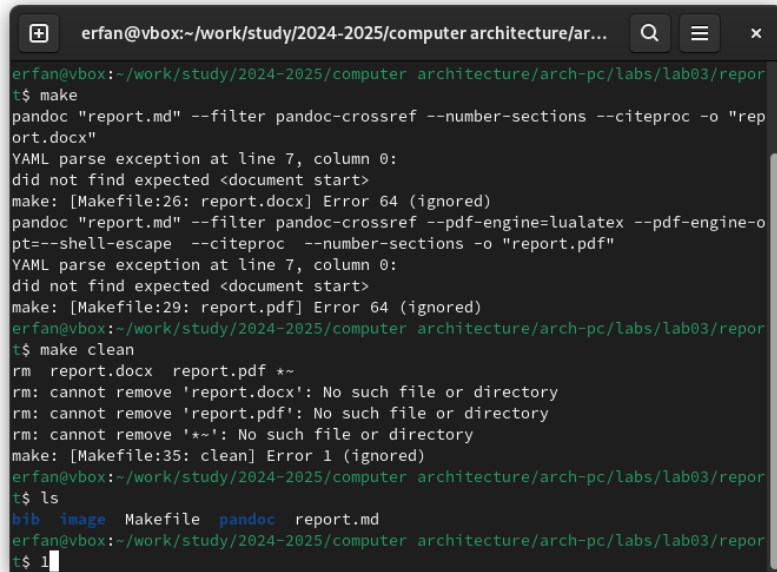

```
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-...  
erfan@vbox:~$ cd work/study/2024-2025/computer\ architecture/arch-pc/  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc$ git pull  
Already up to date.  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc$ cd labs/lab03/r  
eport/  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor  
t$ make  
pandoc "report.md" --filter pandoc-crossref --number-sections --citeproc -o "rep  
ort.docx"  
YAML parse exception at line 7, column 0:  
did not find expected <document start>  
make: [Makefile:26: report.docx] Error 64 (ignored)  
pandoc "report.md" --filter pandoc-crossref --pdf-engine=lualatex --pdf-engine-o  
pt--shell-escape --citeproc --number-sections -o "report.pdf"  
YAML parse exception at line 7, column 0:  
did not find expected <document start>  
make: [Makefile:29: report.pdf] Error 64 (ignored)  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor  
t$ 1
```

Pic. 4.2: Compiling the template

```
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-...  
Already up to date.  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc$ cd labs/lab03/r  
eport/  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor  
t$ make  
pandoc "report.md" --filter pandoc-crossref --number-sections --citeproc -o "rep  
ort.docx"  
YAML parse exception at line 7, column 0:  
did not find expected <document start>  
make: [Makefile:26: report.docx] Error 64 (ignored)  
pandoc "report.md" --filter pandoc-crossref --pdf-engine=lualatex --pdf-engine-o  
pt--shell-escape --citeproc --number-sections -o "report.pdf"  
YAML parse exception at line 7, column 0:  
did not find expected <document start>  
make: [Makefile:29: report.pdf] Error 64 (ignored)  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor  
t$ make clean  
rm report.docx report.pdf *~  
rm: cannot remove 'report.docx': No such file or directory  
rm: cannot remove 'report.pdf': No such file or directory  
rm: cannot remove '*~': No such file or directory  
make: [Makefile:35: clean] Error 1 (ignored)  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor  
t$ 1
```

Pic. 4.3: Checking

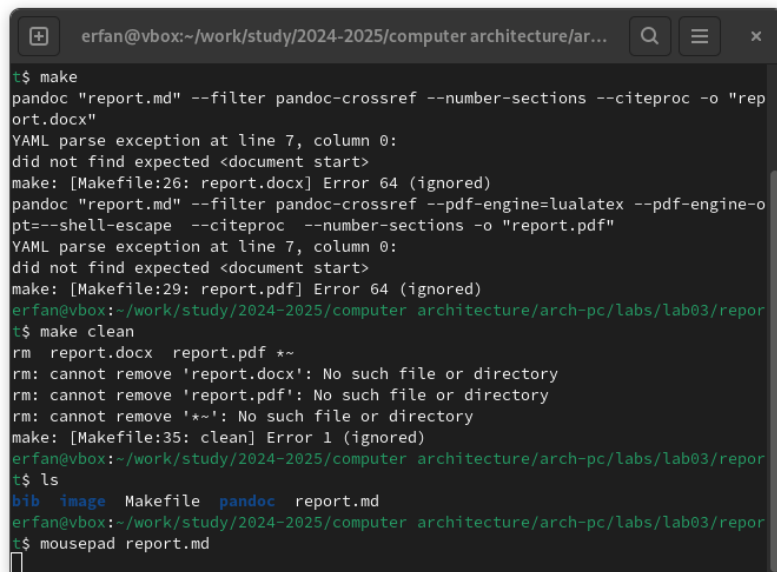
After checking the functionality of the template compiler, I delete the generated files using the make clean command (fig. 4.4)



```
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ make
pandoc "report.md" --filter pandoc-crossref --number-sections --citeproc -o "rep
ort.docx"
YAML parse exception at line 7, column 0:
did not find expected <document start>
make: [Makefile:26: report.docx] Error 64 (ignored)
pandoc "report.md" --filter pandoc-crossref --pdf-engine=lualatex --pdf-engine-o
pt=--shell-escape --citeproc --number-sections -o "report.pdf"
YAML parse exception at line 7, column 0:
did not find expected <document start>
make: [Makefile:29: report.pdf] Error 64 (ignored)
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ make clean
rm report.docx report.pdf *~
rm: cannot remove 'report.docx': No such file or directory
rm: cannot remove 'report.pdf': No such file or directory
rm: cannot remove '*~': No such file or directory
make: [Makefile:35: clean] Error 1 (ignored)
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ ls
bib image Makefile pandoc report.md
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ 1
```

Pic. 4.4: Deleting generated templates

Using the editor, I run a report on the completed laboratory work (fig. 4.5)

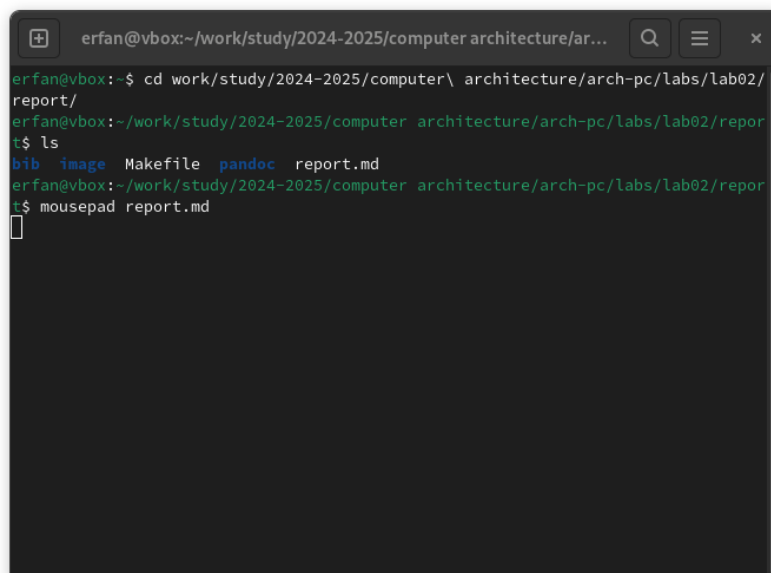


```
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ make
pandoc "report.md" --filter pandoc-crossref --number-sections --citeproc -o "rep
ort.docx"
YAML parse exception at line 7, column 0:
did not find expected <document start>
make: [Makefile:26: report.docx] Error 64 (ignored)
pandoc "report.md" --filter pandoc-crossref --pdf-engine=lualatex --pdf-engine-o
pt=--shell-escape --citeproc --number-sections -o "report.pdf"
YAML parse exception at line 7, column 0:
did not find expected <document start>
make: [Makefile:29: report.pdf] Error 64 (ignored)
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ make clean
rm report.docx report.pdf *~
rm: cannot remove 'report.docx': No such file or directory
rm: cannot remove 'report.pdf': No such file or directory
rm: cannot remove '*~': No such file or directory
make: [Makefile:35: clean] Error 1 (ignored)
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ ls
bib image Makefile pandoc report.md
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab03/repor
t$ mousepad report.md
```

Pic. 4.5: Preparing the report

5 Tasks for independent work

Similarly to completing the report on the current lab, I complete the report in markdown for the second lab, for this I go to the directory of the 2nd lab and prepare the report using the mousepad text editor. (fig. 5.1)



```
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab02/  
report/  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab02/repor  
t$ ls  
bib image Makefile pandoc report.md  
erfan@vbox:~/work/study/2024-2025/computer architecture/arch-pc/labs/lab02/repor  
t$ mousepad report.md  
█
```

Pic. 5.1: Completing the report on the 2nd lab

6 Conclusions

As a result of completing this lab, I mastered the procedures for preparing reports using the lightweight markup language Markdown.

7 References

1. Course on TUIS
2. Laboratory work No. 3 3 . Example of lab work