

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 | 8 |
| 4.3 | Checking | 9 |
| 4.4 | Deleting generated templates | 9 |
| 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

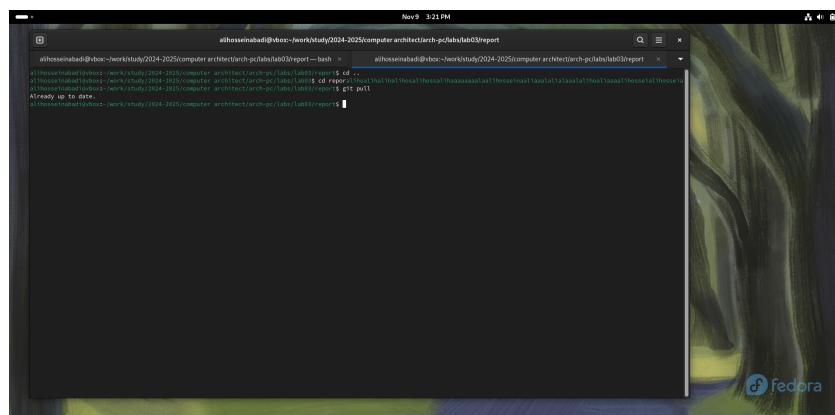
- installation of necessary software
- filling in the laboratory work report no-3 using the markdown markup language
- task for independent work

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

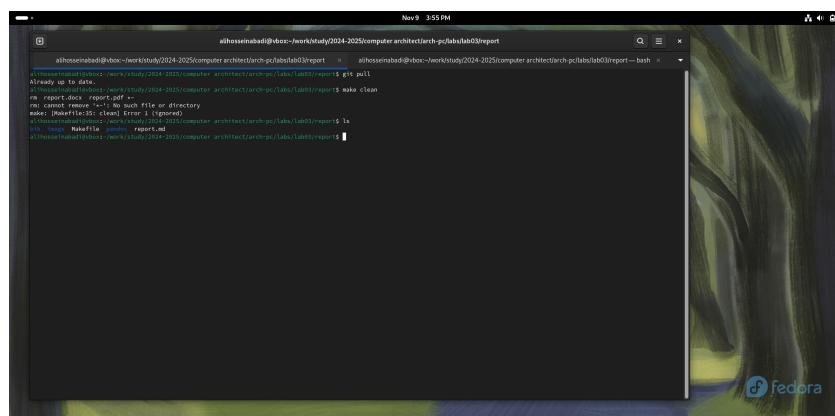
In the terminal, I go to the course directory and update the repository from the remote one to GitHub. (fig. 4.1)



A screenshot of a terminal window titled "Nov 9 3:21 PM". The window shows a command-line session. The user has run "git pull" and is prompted to enter their GitHub password. The terminal is running on a Fedora system, as indicated by the desktop environment window title bar.

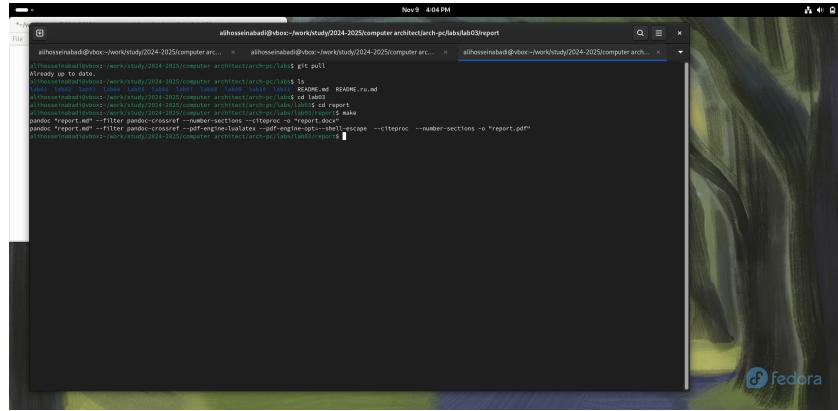
Pic. 4.1: Updating changes in the course directory

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



A screenshot of a terminal window titled "Nov 9 3:55 PM". The user has run "make" and is prompted to enter their GitHub password. The terminal is running on a Fedora system, as indicated by the desktop environment window title bar.

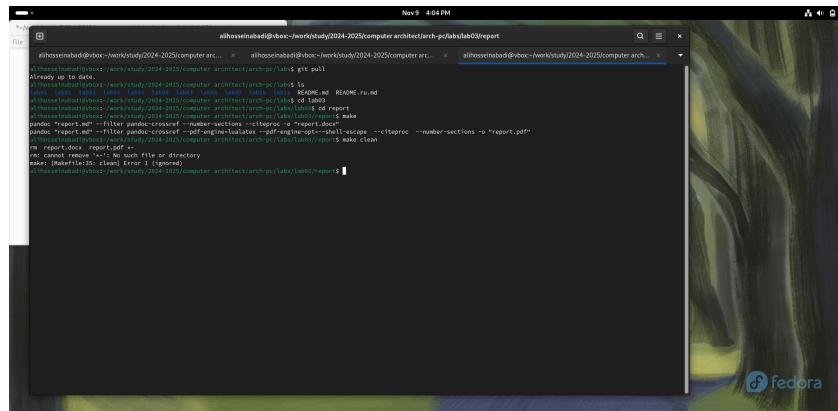
Pic. 4.2: Compiling the template



```
Nov 9 4:04 PM
alhosseiniabadi@ibex:~/work/study/2024-2025/computer archi... alhosseiniabadi@ibex:~/work/study/2024-2025/computer archi...
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ git pull
Already up to date.
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls
ReadMe.md  README_ru.md
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls -l | cd report
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/report$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/report$ ls -l | cd lab03
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03$ ls -l | cd report
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ pandoc "report.adm" --filter pandoc-crossref --number-sections --citeproc -o "report.pdf"
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ pandoc "report.adm" --filter pandoc-crossref --pdf-engine=latextex --pdf-engine-opt="--shell-escape" --citeproc --number-sections -o "report.pdf"
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ rm report.adm
rm: cannot remove 'report.adm': No such file or directory
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ make clean
make: [Makefile:3] clean: Error 1 (ignored)
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$
```

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)



```
Nov 9 4:04 PM
alhosseiniabadi@ibex:~/work/study/2024-2025/computer archi... alhosseiniabadi@ibex:~/work/study/2024-2025/computer archi...
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ git pull
Already up to date.
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls
ReadMe.md  README_ru.md
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs$ ls -l | cd report
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/report$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03$ ls -l | cd report
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ ls -l
total 0
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ pandoc "report.adm" --filter pandoc-crossref --number-sections --citeproc -o "report.pdf"
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ pandoc "report.adm" --filter pandoc-crossref --pdf-engine=latextex --pdf-engine-opt="--shell-escape" --citeproc --number-sections -o "report.pdf"
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ rm report.adm
rm: cannot remove 'report.adm': No such file or directory
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$ make clean
make: [Makefile:3] clean: Error 1 (ignored)
alhosseiniabadi@ibex:~/work/study/2024-2025/computer architect/arch-pc/labs/lab03/report$
```

Pic. 4.4: Deleting generated templates

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

```
Nov9 3:58 PM
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report— mousepad report.md
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report— m... x alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report— bash x
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ git pull
Already up to date.
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ make clean
rm report.docx report.pdf ~*
rm: report.docx: No such file or directory
make: [Makefile:30] clean Error 1 (ignored)
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ ls
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ mousepad report.md
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ mousepad report.md
alhosseiniabadi@box:~/work/study/2024-2025/computer architect/arch-pc/lab0/lab0/report$ fedora
```

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)

Completing the report on the 2nd lab

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