

****РОССИЙСКИЙ УНИВЕРСИТЕТ ДРУЖБЫ НАРОДОВ****
****Факультет Физико-Математических Наук****
****Кафедра прикладной информатики и теории вероятностей****

****ОТЧЁТ****
****ПО ЛАБОРАТОРНОЙ РАБОТЕ № 1****
дисциплина: Математическое Моделирование

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Группа: НФИбд-01-20

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****МОСКВА****
2022-2023 г.

Техническое оснащение:

- Персональный компьютер с операционной системой Windows 10;
- OBS Studio, использующийся для записи скринкаста лабораторной работы;
- Приложение Visual Studio Code для редактирования файлов формата *md* , а также для конвертации файлов отчётов и презентаций;

Цель работы: Создать каталоги для работы на основе документа Рабочее пространство для лабораторной работы.

****Этапы работы:****

1)Выполняю следующие команды в MINGW64, чтобы git узнал моё имя и электронную почту.

```
git config --global user.name "IvEnLO"
```

```
git config --global user.email "i.evdokimov111@gmail.com"
```

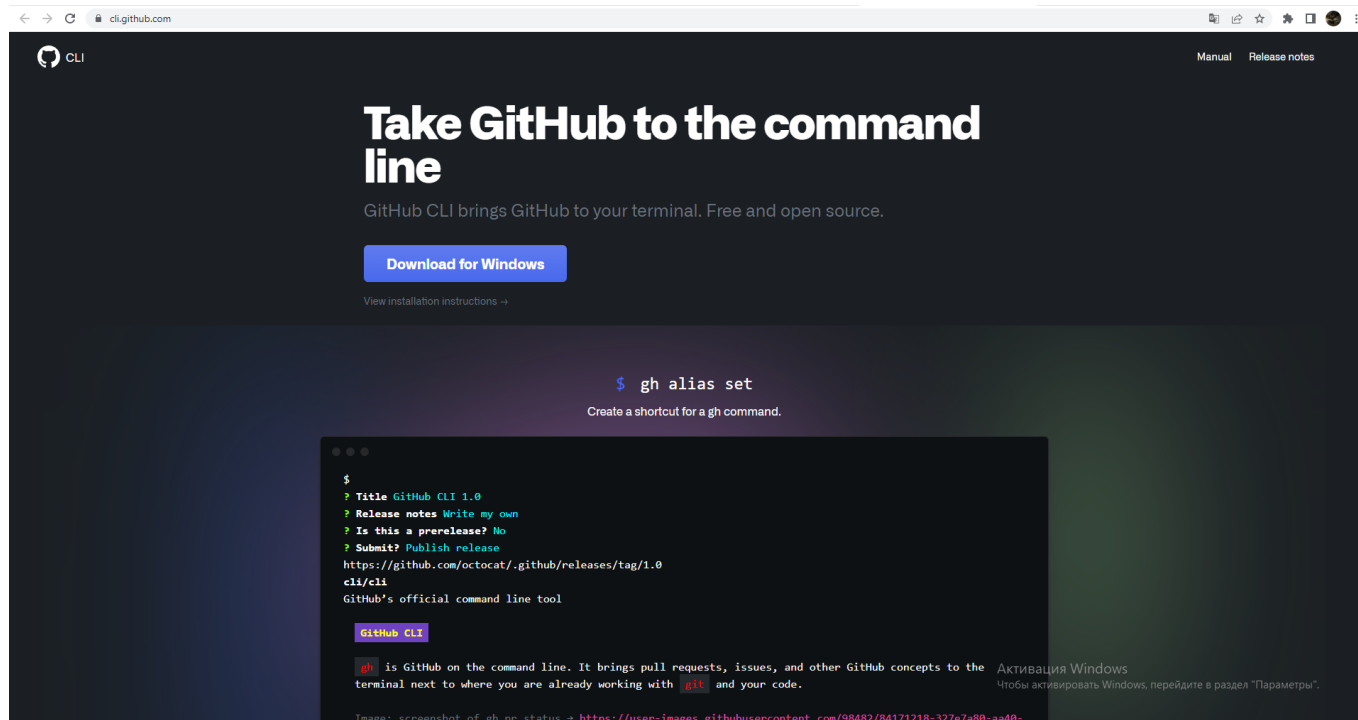


```
Admin@WIN-ORL1FA978MS MINGW64 ~  
$ git config --global user.name"IvEnLO"  
  
Admin@WIN-ORL1FA978MS MINGW64 ~  
$ git config --global user.email"i.evdokimov111@gmail.com"
```

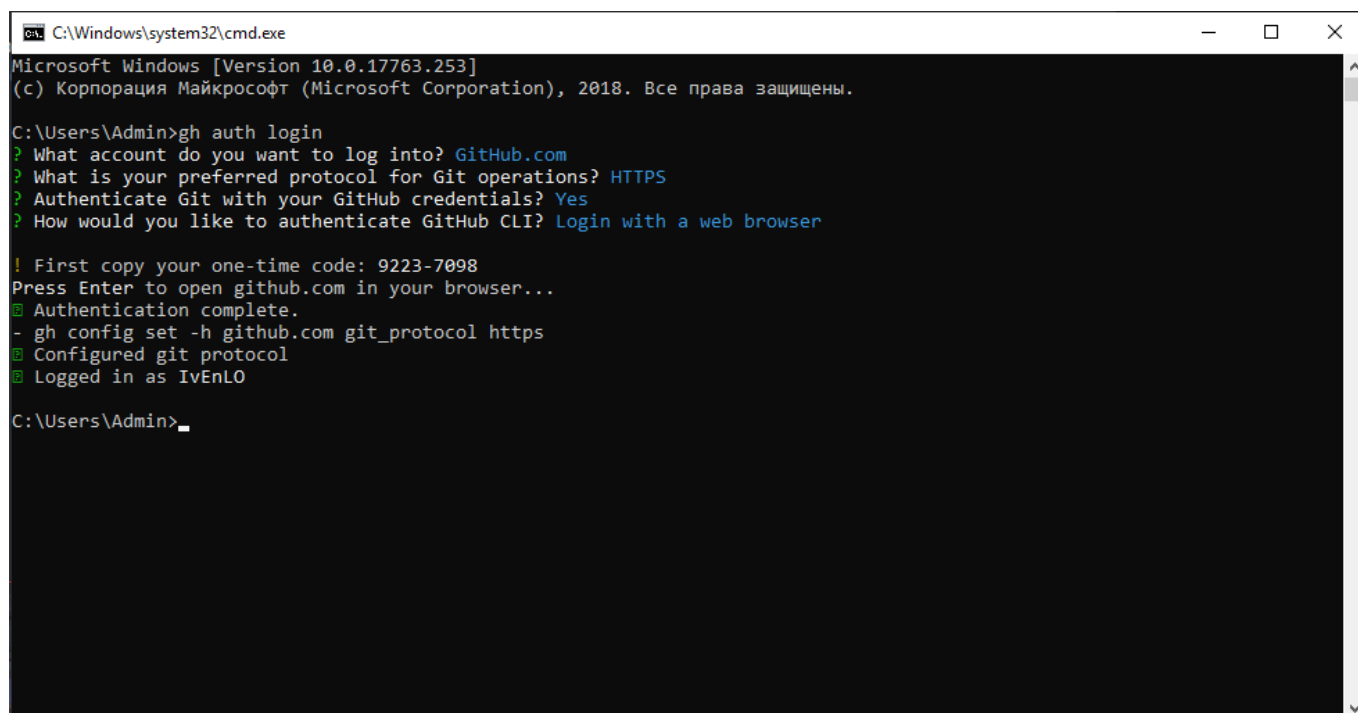
2)Настраиваю гит в MINGW64: git config --global core.autocrlf input git config --global core.safecrlf true git config --global core.quoteopath off

```
Admin@WIN-ORL1FA978MS MINGW64 ~  
$ git config --global core.autocrlf input  
  
Admin@WIN-ORL1FA978MS MINGW64 ~  
$ git config --global core.safecrlf true  
  
Admin@WIN-ORL1FA978MS MINGW64 ~  
$ git config --global core.quoteopath off
```

2+)Устанавливаю github CLI: <https://cli.github.com/>



2+ +)Регистрируюсь через windows консоль через команды



3)Создаю рабочее пространство:

```
mkdir -p ~/work/study/2022-2023/"Математическое-моделирование"
```

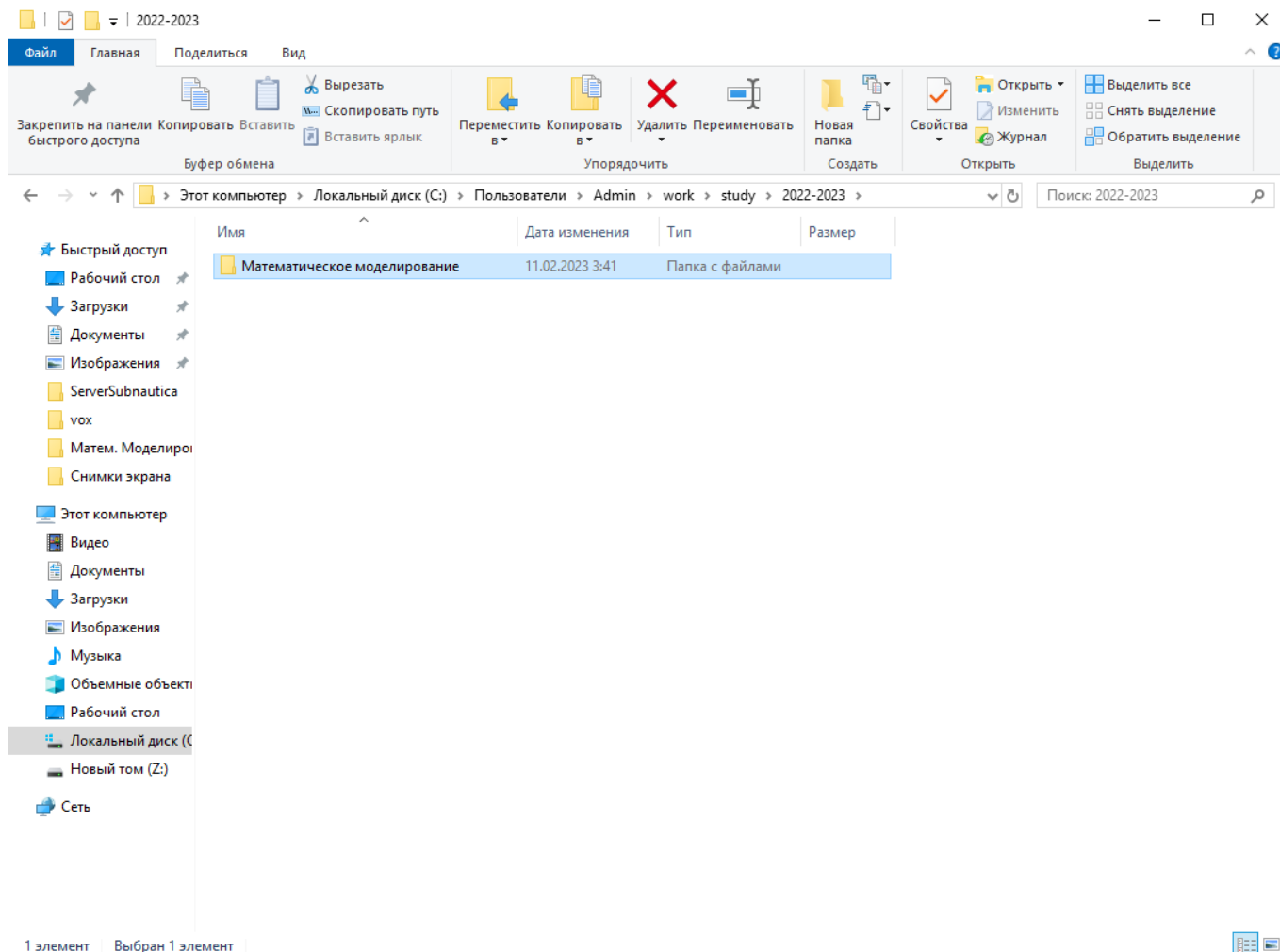
```
cd ~/work/study/2022-2023/"Математическое-моделирование"
```

```
gh repo create study_2022-2023_mathmod --template=yamadharma/course-directory-student-template --public
```

```
git clone --recursive git@github.com:IvEnLO/study_2022-2023_mathmod.git mathmod
```

```
Admin@WIN-ORL1FA978MS MINGW64 ~
$ mkdir -p work/study/2022-2023/"Математическое моделирование"

Admin@WIN-ORL1FA978MS MINGW64 ~
$ cd work/study/2022-2023/"Математическое моделирование"
```



```
Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое моделирование
$ gh repo create study_2022-2023_mathmod --template=yamadharma/course-directory-student-template --public
✓ created repository IvEnLO/study_2022-2023_mathmod on Github

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое моделирование
$ git clone --recursive git@github.com:IvEnLO/study_2022-2023_mathmod.git mathmod
Cloning into 'mathmod'...
remote: Enumerating objects: 27, done.
remote: Counting objects: 100% (27/27), done.
remote: Compressing objects: 100% (26/26), done.
remote: Total 27 (delta 1), reused 11 (delta 0), pack-reused 0
Receiving objects: 100% (27/27), 16.93 KiB | 160.00 KiB/s, done.
Resolving deltas: 100% (1/1), done.
Submodule 'template/presentation' (https://github.com/yamadharma/academic-presentation-markdown-template.git) registered
for path 'template/presentation'
Submodule 'template/report' (https://github.com/yamadharma/academic-laboratory-report-template.git) registered for path
'template/report'
Cloning into 'C:/Users/Admin/work/study/2022-2023/Математическое моделирование/mathmod/template/presentation'...
remote: Enumerating objects: 82, done.
remote: Counting objects: 100% (82/82), done.
remote: Compressing objects: 100% (57/57), done.
remote: Total 82 (delta 28), reused 77 (delta 23), pack-reused 0
Receiving objects: 100% (82/82), 92.90 KiB | 485.00 KiB/s, done.
Resolving deltas: 100% (28/28), done.
Cloning into 'C:/Users/Admin/work/study/2022-2023/Математическое моделирование/mathmod/template/report'...
remote: Enumerating objects: 101, done.
remote: Counting objects: 100% (101/101), done.
remote: Compressing objects: 100% (70/70), done.
remote: Total 101 (delta 40), reused 88 (delta 27), pack-reused 0
Receiving objects: 100% (101/101), 327.25 KiB | 1.54 MiB/s, done.
Resolving deltas: 100% (40/40), done.
Submodule path 'template/presentation': checked out 'b1be3800ee91f5809264cb755d316174540b753e'
Submodule path 'template/report': checked out '1d1b61dcac9c287a83917b82e3aef11a33b1e3b2'
```

4)Запускаю git командой в MINGW64: git init

```
Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ git init
Reinitialized existing Git repository in C:/Users/Admin/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod/.git/
```

5)Захожу в папку проекта: cd study_2022-2023_mathmod

```
Admin@WIN-ORL1FA978MS MINGW64 ~
$ cd ~/work/study/2022-2023/"Математическое-моделирование"

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование (master)
$ cd study_2022-2023_mathmod
```

6)Работа с make: make help make list

```
Admin@WIN-ORL1FA978MS MINGW64 ~
$ cd ~/work/study/2022-2023/"Математическое-моделирование"

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование (master)
$ cd study_2022-2023_mathmod

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ make help
Usage:
  make <target>

Targets:
  list           List of courses
  prepare       Generate directories structure

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ make list
  arch-pc  Архитектура ЭВМ
sciprog-intro  Введение в научное программирование
  infosec  Информационная безопасность
  mathsec  Математические основы защиты информации и информационной безопасности
  mathmod  Математическое моделирование
  sciprog  Научное программирование
  os-intro  Операционные системы
```

7)Удаление лишний файл: rm package.json

```
Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ rm package.json

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ ls
CHANGELOG.md  LICENSE  README.en.md  README.md  template/
COURSE        Makefile  README.git-flow.md  config/
```

8)Добавляю в курс и проверка: echo mathmod > COURSE make

```
Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ echo mathmod > COURSE

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$ make
```

9)Добавляю на git: git add .

```
Admin@WIN-ORL1FA978M5 MINGW64 ~/work/study/2022-2023/Математическое-моделировани  
e/study_2022-2023_mathmod (master)  
$ git add .
```

10)Делаю коммит: git commit -am "feat(main): make course structure"


```
Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделировани
e/study_2022-2023_mathmod (master)
$ git commit -am "feat(main): make course structure"
[master 651c678] feat(main): make course structure
217 files changed, 59287 insertions(+), 14 deletions(-)
create mode 100644 labs/README.md
create mode 100644 labs/README.ru.md
create mode 100644 labs/lab1/presentation/Makefile
create mode 100644 labs/lab1/presentation/image/kulyabov.jpg
create mode 100644 labs/lab1/presentation/presentation.md
create mode 100644 labs/lab1/report/Makefile
create mode 100644 labs/lab1/report/bib/cite.bib
create mode 100644 labs/lab1/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab1/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab1/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab1/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab1/report/report.md
create mode 100644 labs/lab2/presentation/Makefile
create mode 100644 labs/lab2/presentation/image/kulyabov.jpg
create mode 100644 labs/lab2/presentation/presentation.md
create mode 100644 labs/lab2/report/Makefile
create mode 100644 labs/lab2/report/bib/cite.bib
create mode 100644 labs/lab2/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab2/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab2/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab2/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab2/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab2/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab2/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab2/report/report.md
create mode 100644 labs/lab3/presentation/Makefile
create mode 100644 labs/lab3/presentation/image/kulyabov.jpg
create mode 100644 labs/lab3/presentation/presentation.md
create mode 100644 labs/lab3/report/Makefile
create mode 100644 labs/lab3/report/bib/cite.bib
create mode 100644 labs/lab3/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab3/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab3/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab3/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab3/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab3/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab3/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab3/report/report.md
create mode 100644 labs/lab4/presentation/Makefile
create mode 100644 labs/lab4/presentation/image/kulyabov.jpg
create mode 100644 labs/lab4/presentation/presentation.md
create mode 100644 labs/lab4/report/Makefile
create mode 100644 labs/lab4/report/bib/cite.bib
create mode 100644 labs/lab4/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab4/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab4/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab4/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab4/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab4/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab4/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab4/report/pandoc/filters/pandocxnos/core.py
```



```
py
create mode 100644 labs/lab4/report/report.md
create mode 100644 labs/lab5/presentation/Makefile
create mode 100644 labs/lab5/presentation/image/kulyabov.jpg
create mode 100644 labs/lab5/presentation/presentation.md
create mode 100644 labs/lab5/report/Makefile
create mode 100644 labs/lab5/report/bib/cite.bib
create mode 100644 labs/lab5/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab5/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab5/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab5/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab5/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab5/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab5/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab5/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab5/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab5/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab5/report/report.md
create mode 100644 labs/lab6/presentation/Makefile
create mode 100644 labs/lab6/presentation/image/kulyabov.jpg
create mode 100644 labs/lab6/presentation/presentation.md
create mode 100644 labs/lab6/report/Makefile
create mode 100644 labs/lab6/report/bib/cite.bib
create mode 100644 labs/lab6/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab6/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab6/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab6/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab6/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab6/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab6/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab6/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab6/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab6/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab6/report/report.md
create mode 100644 labs/lab7/presentation/Makefile
create mode 100644 labs/lab7/presentation/image/kulyabov.jpg
create mode 100644 labs/lab7/presentation/presentation.md
create mode 100644 labs/lab7/report/Makefile
create mode 100644 labs/lab7/report/bib/cite.bib
create mode 100644 labs/lab7/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab7/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab7/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab7/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab7/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab7/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab7/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab7/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab7/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab7/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab7/report/report.md
create mode 100644 labs/lab8/presentation/Makefile
create mode 100644 labs/lab8/presentation/image/kulyabov.jpg
create mode 100644 labs/lab8/presentation/presentation.md
create mode 100644 labs/lab8/report/Makefile
create mode 100644 labs/lab8/report/bib/cite.bib
create mode 100644 labs/lab8/report/image/placeimg_800_600_tech.jpg
create mode 100644 labs/lab8/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 labs/lab8/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 labs/lab8/report/pandoc/filters/pandoc_fignos.py
create mode 100644 labs/lab8/report/pandoc/filters/pandoc_secnos.py
create mode 100644 labs/lab8/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 labs/lab8/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 labs/lab8/report/pandoc/filters/pandocxnos/core.py
create mode 100644 labs/lab8/report/pandoc/filters/pandocxnos/main.py
create mode 100644 labs/lab8/report/pandoc/filters/pandocxnos/pandocattributes.
py
create mode 100644 labs/lab8/report/report.md
delete mode 100644 package.json
create mode 100644 prepare
create mode 100644 presentation/README.md
```

11)Заливаем на github: `git push -u origin master`

```

create mode 100644 project-group/stage2/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 project-group/stage2/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 project-group/stage2/report/pandoc/filters/pandocxnos/core.py
create mode 100644 project-group/stage2/report/pandoc/filters/pandocxnos/main.py
create mode 100644 project-group/stage2/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 project-group/stage2/report/report.md
create mode 100644 project-group/stage3/presentation/Makefile
create mode 100644 project-group/stage3/presentation/image/kulyabov.jpg
create mode 100644 project-group/stage3/presentation/presentation.md
create mode 100644 project-group/stage3/report/Makefile
create mode 100644 project-group/stage3/report/bib/cite.bib
create mode 100644 project-group/stage3/report/image/placeimg_800_600_tech.jpg
create mode 100644 project-group/stage3/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 project-group/stage3/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandoc_fignos.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandoc_secnos.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandocxnos/core.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandocxnos/main.py
create mode 100644 project-group/stage3/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 project-group/stage3/report/report.md
create mode 100644 project-group/stage4/presentation/Makefile
create mode 100644 project-group/stage4/presentation/image/kulyabov.jpg
create mode 100644 project-group/stage4/presentation/presentation.md
create mode 100644 project-group/stage4/report/Makefile
create mode 100644 project-group/stage4/report/bib/cite.bib
create mode 100644 project-group/stage4/report/image/placeimg_800_600_tech.jpg
create mode 100644 project-group/stage4/report/pandoc/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 project-group/stage4/report/pandoc/filters/pandoc_eqnos.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandoc_fignos.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandoc_secnos.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandoc_tablenos.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandocxnos/__init__.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandocxnos/core.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandocxnos/main.py
create mode 100644 project-group/stage4/report/pandoc/filters/pandocxnos/pandocattributes.py
create mode 100644 project-group/stage4/report/report.md

```

```

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)

```

```

$ git push -u origin master
Enumerating objects: 40, done.
Counting objects: 100% (40/40), done.
Delta compression using up to 16 threads
Compressing objects: 100% (30/30), done.
Writing objects: 100% (38/38), 342.34 KiB | 13.69 MiB/s, done.
Total 38 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To https://github.com/IvEnLO/study_2022-2023_mathmod.git
   f2f20c9..651c678  master -> master
branch 'master' set up to track 'origin/master'.

```

```

Admin@WIN-ORL1FA978MS MINGW64 ~/work/study/2022-2023/Математическое-моделирование/study_2022-2023_mathmod (master)
$

```

Итог:

GitHub repository: **IvEnLO / study_2022-2023_mathmod** (Public)

generated from [yamadharma/course-directory-student-template](#)

Navigation: [Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [...](#)

feat(main): make course structure [Browse files](#)

🔑 master

👤 IvEnLO committed 13 minutes ago

1 parent [f2f20c9](#) commit [651c678](#)

Showing 217 changed files with 59,287 additions and 14 deletions. [Split](#) [Unified](#)

1 [COURSE](#) [...](#)

... @@ -0,0 +1 @@

1 + mathmod

1 [labs/README.md](#) [...](#)

... @@ -0,0 +1 @@

1 + # Laboratory works

1 [labs/README.ru.md](#) [...](#)

... @@ -0,0 +1 @@

1 + # Лабораторные работы

28 [labs/lab1/presentation/Makefile](#) [...](#)

Активация Windows
Чтобы активировать Windows, зайдите на [www.microsoft.com/windows/activation](#)

Выводы: Удалось создать каталоги для работы на основе документа Рабочее пространство для лабораторной работы.