Технический университет Молдовы

Анализ и проектирование алгоритмов

**ОТЧЕТ**

ПО ЛАБАРАТОРНОЙ РАБОТЕ №1

*По предмету «Инструменты и среды разработки»*



Работу выполнил: студент группы TI-155

*Буянов Евгений*

Проверил: преподаватель MIDPS

*Гожин Виктор*

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**Задание:**

**Использование VSC системы**[**github**](https://github.com/)**или bitbucket**

* *Basic Level* (оценка 5 || 6) :
  + Создание нового репозитория
  + Настройка VCS
  + Создание минимум 2х веток
  + Минимум 1 коммит на каждую ветку
* *Normal Level* (nota 7 || 8):
  + Настроить branch to track a remote origin на котором можно было бы сделать push
  + Сохранения изменений которые не будут закомичены
  + Использование .gitignore
* *Advanced Level* (nota 9 || 10):
  + Мерж 2 веток
  + Решение конфликтов 2 веток
  + Минимальные команды гита
* *Bonus Point* (+1):
  + Использование тегов

**Команды гита:**

git init - create repository in current folder location

pwd - current directory

cd <name of folder> - folder

cd .. - move back a folder

ls - list all files and folder in folder

git add . - add all changes to our progect <staging area>

git commit -m "message" - saving the progect at the given point and time //add to repository

git log - view commit hisotry

git status – verify changes in files

git diff - see difference between working copy and the one in the repository

git rm <name.file> - remove file

git mv <filename.file> <filename.file> -remane a file

git mv <filename.file> foldername\ - move a file

echo 'hello world' > file.txt - create file

git config --list - show all configurations

git help – commands

git merge <branchname> - merge

git pull --rebase origin master

git vim <file.file> - change contents of a file

git escape :wq – exit from text window

**Код работы:**

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git init

Initialized empty Git repository in D:/UTM/MIDPS/.git/

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git add README.md

fatal: pathspec 'README.md' did not match any files

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ echo "# MIDPS" >> README.md

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git add README.md

warning: LF will be replaced by CRLF in README.md.

The file will have its original line endings in your working directory.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git ignore README.md

git: 'ignore' is not a git command. See 'git --help'.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git commit -m "first commit"

[master (root-commit) 8d90233] first commit

warning: LF will be replaced by CRLF in README.md.

The file will have its original line endings in your working directory.

1 file changed, 1 insertion(+)

create mode 100644 README.md

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git remote add origin https://github.com/jenia-buianov/MIDPS.git

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git push -u origin master

Counting objects: 3, done.

Writing objects: 100% (3/3), 217 bytes | 0 bytes/s, done.

Total 3 (delta 0), reused 0 (delta 0)

To https://github.com/jenia-buianov/MIDPS.git

\* [new branch] master -> master

Branch master set up to track remote branch master from origin.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

Lab 1/

nothing added to commit but untracked files present (use "git add" to track)

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git add .

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git commit -m "Added doc file"

[master d4ea1ab] Added doc file

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 Lab 1/File.docx

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git push -u origin master

Counting objects: 4, done.

Delta compression using up to 2 threads.

Compressing objects: 100% (3/3), done.

Writing objects: 100% (4/4), 8.73 KiB | 0 bytes/s, done.

Total 4 (delta 0), reused 0 (delta 0)

To https://github.com/jenia-buianov/MIDPS.git

8d90233..d4ea1ab master -> master

Branch master set up to track remote branch master from origin.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git status

On branch master

Your branch is up-to-date with 'origin/master'.

nothing to commit, working directory clean

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git checkout -b second

Switched to a new branch 'second'

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git add .

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git commit -m "First commit on second branch"

[second 414e0c1] First commit on second branch

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 Lab 1/~$File.docx

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git push -u origin second

Counting objects: 4, done.

Delta compression using up to 2 threads.

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 419 bytes | 0 bytes/s, done.

Total 4 (delta 0), reused 0 (delta 0)

To https://github.com/jenia-buianov/MIDPS.git

\* [new branch] second -> second

Branch second set up to track remote branch second from origin.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git pull origin second

From https://github.com/jenia-buianov/MIDPS

\* branch second -> FETCH\_HEAD

Already up-to-date.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git add .

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git commit -m "Changed"

[second 8106a59] Changed

2 files changed, 0 insertions(+), 0 deletions(-)

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git pull origin second

From https://github.com/jenia-buianov/MIDPS

\* branch second -> FETCH\_HEAD

Already up-to-date.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (second)

$ git checkout master

Switched to branch 'master'

Your branch is up-to-date with 'origin/master'.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git merge second

Updating d4ea1ab..8106a59

Fast-forward

Lab 1/File.docx | Bin 11328 -> 11398 bytes

Lab 1/~$File.docx | Bin 0 -> 162 bytes

2 files changed, 0 insertions(+), 0 deletions(-)

create mode 100644 Lab 1/~$File.docx

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git merge second

warning: Cannot merge binary files: Lab 1/File.docx (HEAD vs. second)

Auto-merging Lab 1/File.docx

CONFLICT (content): Merge conflict in Lab 1/File.docx

Automatic merge failed; fix conflicts and then commit the result.

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master|MERGING)

$ git commit -a -m "Merged"

[master 24ffd35] Merged

admin@admin-▒▒ MINGW32 /d/UTM/MIDPS (master)

$ git merge second

Already up-to-date.

**Вывод:**

В ходе проделанной работы я познакомился с системой учета версий. Данная система облегчает процесс программирования возможностью отката и просмотра прошлых версий файлов, позволяет учувствовать в разработке одного проекта нескольким программистам, синхронизируется с сервером и предоставляет доступ к просмотру онлайн. Программа для реализации данных действий называется git, а один из сервисов является github.