

# Редактор Vi

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# Цели и задачи работы

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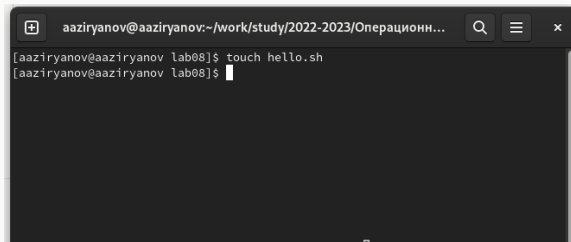
## Цель лабораторной работы

Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором vi, установленным по умолчанию практически во всех дистрибутивах.

1 Изучить возможности редактора Vi

# **Процесс выполнения лабораторной работы**

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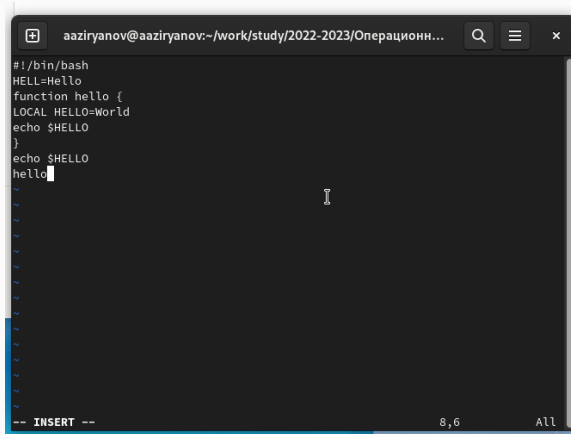


A terminal window with a dark background. The title bar shows the user 'aaziryanov' and the current directory '~/work/study/2022-2023/Операционн...'. The terminal content shows two lines: the first line is '[aaziryanov@aaziryanov lab08]\$ touch hello.sh' and the second line is '[aaziryanov@aaziryanov lab08]\$' followed by a cursor. The window has standard macOS-style window controls (red, yellow, green buttons) and a search icon.

```
aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...  
[aaziryanov@aaziryanov lab08]$ touch hello.sh  
[aaziryanov@aaziryanov lab08]$
```

**Рис. 1:** Создание каталога

# Выполнение работы



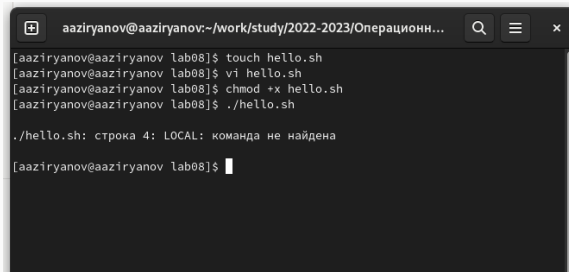
The image shows a terminal window with a dark background. The title bar at the top reads "aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...". The terminal content shows a shell script being edited in the Vi editor. The script includes a shebang, variable assignments, a function definition, and echo statements. The cursor is positioned at the end of the "hello" command on the last line. The bottom status bar of the Vi editor shows "-- INSERT --" on the left, "8,6" in the center, and "All" on the right.

```
aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...
#!/bin/bash
HELL=Hello
function hello {
LOCAL HELLO=World
echo $HELLO
}
echo $HELLO
hello
```

-- INSERT -- 8,6 All

**Рис. 2:** Работа в редакторе Vi

# Выполнение работы

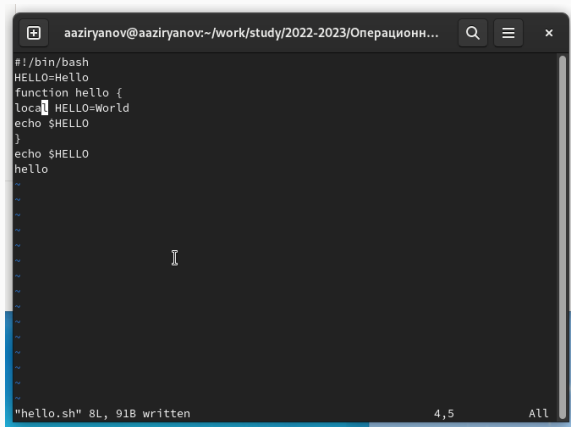
A terminal window with a dark background and light text. The window title is "aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...". The terminal shows a series of commands and their outputs. The commands are: "touch hello.sh", "vi hello.sh", "chmod +x hello.sh", and "./hello.sh". The output for the last command is an error message: "./hello.sh: строка 4: LOCAL: команда не найдена". The prompt is "[aaziryanov@aaziryanov lab08]\$".

```
aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...  
[aaziryanov@aaziryanov lab08]$ touch hello.sh  
[aaziryanov@aaziryanov lab08]$ vi hello.sh  
[aaziryanov@aaziryanov lab08]$ chmod +x hello.sh  
[aaziryanov@aaziryanov lab08]$ ./hello.sh  
  
./hello.sh: строка 4: LOCAL: команда не найдена  
[aaziryanov@aaziryanov lab08]$
```

Рис. 3: Запуск файла



# Выполнение работы



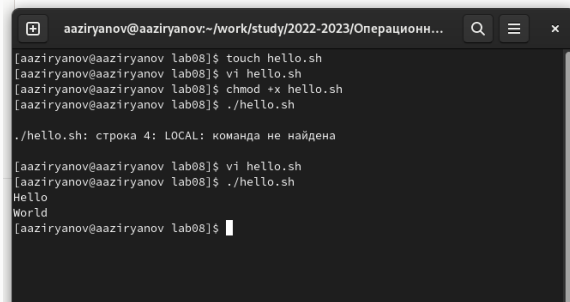
The image shows a terminal window with a dark background. The title bar at the top reads "aaziryanov@aaziryanov:~/work/study/2022-2023/Операционн...". The terminal content shows a bash script being edited. The script defines a function named "hello" that sets a local variable "HELLO" to "World" and prints it. The cursor is positioned at the end of the "local HELLO=World" line. At the bottom of the terminal, a status bar indicates "hello.sh" 8L, 91B written, with a cursor at line 4, column 5.

```
#!/bin/bash
HELLO=Hello
function hello {
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
```

"hello.sh" 8L, 91B written 4,5 All

**Рис. 4:** Работа в редакторе Vi

# Выполнение работы

A terminal window with a dark background and light text. The title bar shows the user 'aaziryanov' and the current directory. The terminal contains a series of commands and their outputs. The commands are: 'touch hello.sh', 'vi hello.sh', 'chmod +x hello.sh', and './hello.sh'. The first './hello.sh' command results in an error message: './hello.sh: строка 4: LOCAL: команда не найдена'. The second './hello.sh' command results in the output 'Hello' followed by 'World' on the next line.

```
aaziryanov@aaziryanov: ~/work/study/2022-2023/Операционн...
[aaziryanov@aaziryanov lab08]$ touch hello.sh
[aaziryanov@aaziryanov lab08]$ vi hello.sh
[aaziryanov@aaziryanov lab08]$ chmod +x hello.sh
[aaziryanov@aaziryanov lab08]$ ./hello.sh

./hello.sh: строка 4: LOCAL: команда не найдена

[aaziryanov@aaziryanov lab08]$ vi hello.sh
[aaziryanov@aaziryanov lab08]$ ./hello.sh
Hello
World
[aaziryanov@aaziryanov lab08]$
```

**Рис. 5:** Повторный запуск файла

## **Выводы по проделанной работе**

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В ходе работы мы получили практические навыки работы с редактором vi, установленным по умолчанию практически во всех дистрибутивах UNIX. А также освоили основные режимы и команды