

Редактор Vi

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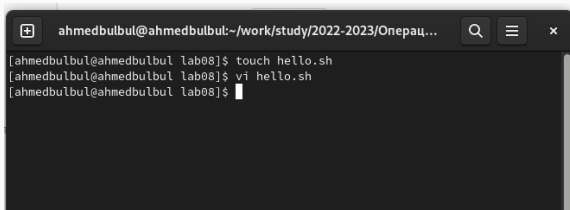
Цели и задачи работы

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

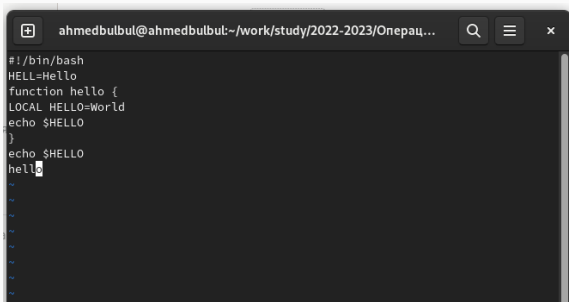


A terminal window with a dark background and light text. The window title bar shows the user 'ahmedbulbul' and the current directory path. The terminal displays three lines of commands and their outputs: 'touch hello.sh' is executed, followed by 'vi hello.sh', and finally a new prompt line is shown.

```
ahmedbulbul@ahmedbulbul:~/work/study/2022-2023/Операц...  
[ahmedbulbul@ahmedbulbul lab08]$ touch hello.sh  
[ahmedbulbul@ahmedbulbul lab08]$ vi hello.sh  
[ahmedbulbul@ahmedbulbul lab08]$
```

Рис. 1: Создание каталога

Выполнение работы

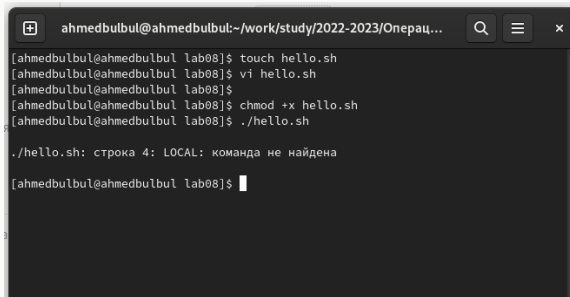


The image shows a terminal window with a dark background. The title bar at the top reads 'ahmedbulbul@ahmedbulbul:~/work/study/2022-2023/Onepaц...'. The terminal content shows a bash script being executed line by line. The script defines a function 'hello' and then calls it. The output of the function is 'HELLO=Hello' and 'LOCAL HELLO=World'. The function call 'hello' is currently being executed, with the cursor at the end of the line.

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

Рис. 2: Работа в редакторе Vi

Выполнение работы



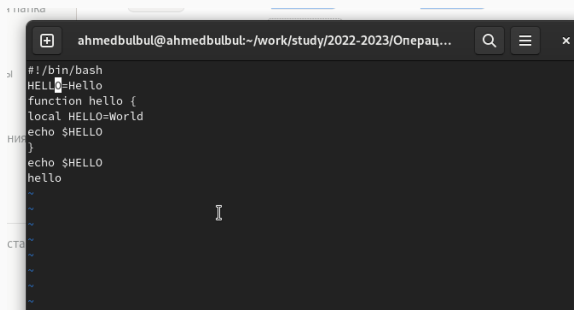
A terminal window with a dark background and light text. The title bar at the top shows the user 'ahmedbulbul' and the current directory '~/work/study/2022-2023/Операц...'. The terminal contains the following commands and output:

```
[ahmedbulbul@ahmedbulbul lab08]$ touch hello.sh
[ahmedbulbul@ahmedbulbul lab08]$ vi hello.sh
[ahmedbulbul@ahmedbulbul lab08]$
[ahmedbulbul@ahmedbulbul lab08]$ chmod +x hello.sh
[ahmedbulbul@ahmedbulbul lab08]$ ./hello.sh

./hello.sh: строка 4: LOCAL: команда не найдена
[ahmedbulbul@ahmedbulbul lab08]$
```

Рис. 3: Запуск файла

Выполнение работы

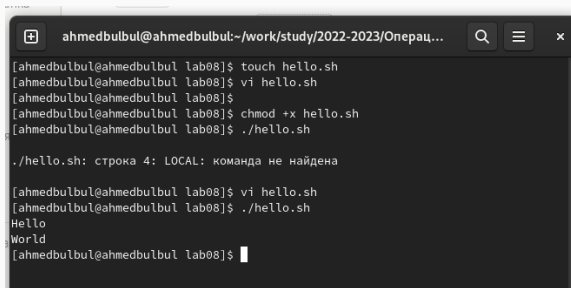


The image shows a terminal window with a dark background. The title bar at the top indicates the user is 'ahmedbulbul' and the current directory is '~/work/study/2022-2023/Операц...'. The terminal content shows a bash prompt '#!/bin/bash' followed by a script being edited. The script defines a 'hello' function that sets a local 'HELLO' variable to 'World' and echoes it. The user has typed 'HELLO=Hello' on the line following the function definition. The cursor is positioned at the end of the line 'hello'. The terminal window has standard window controls (minimize, maximize, close) and a search icon.

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

Рис. 4: Работа в редакторе Vi

Выполнение работы

A terminal window with a dark background and light text. The window title is 'ahmedbulbul@ahmedbulbul:~/work/study/2022-2023/Операц...'. The terminal shows a series of commands and their outputs. The user creates a file 'hello.sh', opens it with 'vi', sets permissions with 'chmod +x', and runs it with './hello.sh'. The first run results in an error: './hello.sh: строка 4: LOCAL: команда не найдена'. The user then edits the file with 'vi' and runs it again. This time, it outputs 'Hello' and 'World' on separate lines.

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

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

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

Рис. 5: Повторный запуск файла

Выводы по проделанной работе

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