

## Лабораторная работа № 8.

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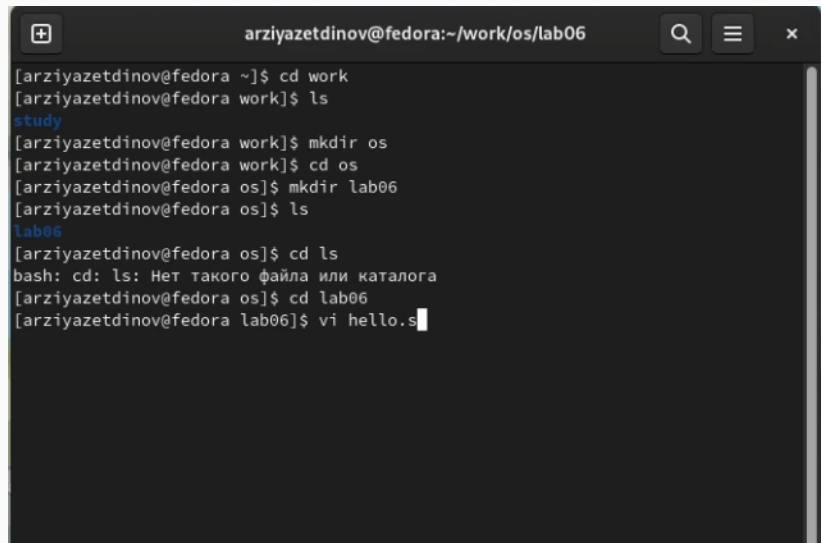
RUDN, Москва, Россия

## Текстовой редактор vi

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## Создание новых каталогов и вызов vi

vi hello.sh (команда для вызова и создания файла).

A terminal window with a dark background and light text. The title bar shows the user 'arziyazetdinov@fedora' and the current directory '~/work/os/lab06'. The terminal content shows a sequence of commands: 'cd work', 'ls' (listing 'study'), 'mkdir os', 'cd os', 'mkdir lab06', 'ls' (listing 'lab06'), and 'cd ls' which results in an error message 'bash: cd: ls: Нет такого файла или каталога'. Finally, the user enters 'cd lab06' and 'vi hello.s', with the cursor positioned at the end of the command.

```
arziyazetdinov@fedora:~/work/os/lab06
[arziyazetdinov@fedora ~]$ cd work
[arziyazetdinov@fedora work]$ ls
study
[arziyazetdinov@fedora work]$ mkdir os
[arziyazetdinov@fedora work]$ cd os
[arziyazetdinov@fedora os]$ mkdir lab06
[arziyazetdinov@fedora os]$ ls
lab06
[arziyazetdinov@fedora os]$ cd ls
bash: cd: ls: Нет такого файла или каталога
[arziyazetdinov@fedora os]$ cd lab06
[arziyazetdinov@fedora lab06]$ vi hello.s
```

“i” - добавление или изменение текста.



The screenshot shows a terminal window with a dark background. The title bar at the top reads "arziyazetdinov@fedora:~/work/os/lab06 — /usr/libexec/vi hello...". The terminal content shows a vi editor session in insert mode (indicated by a tilde '~' at the end of the line). The user has entered the following text:

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

The cursor is positioned at the end of the last line, ready for further editing.

“Esc” - для перехода в командный режим.

“:” - для перехода в режим последней строки.

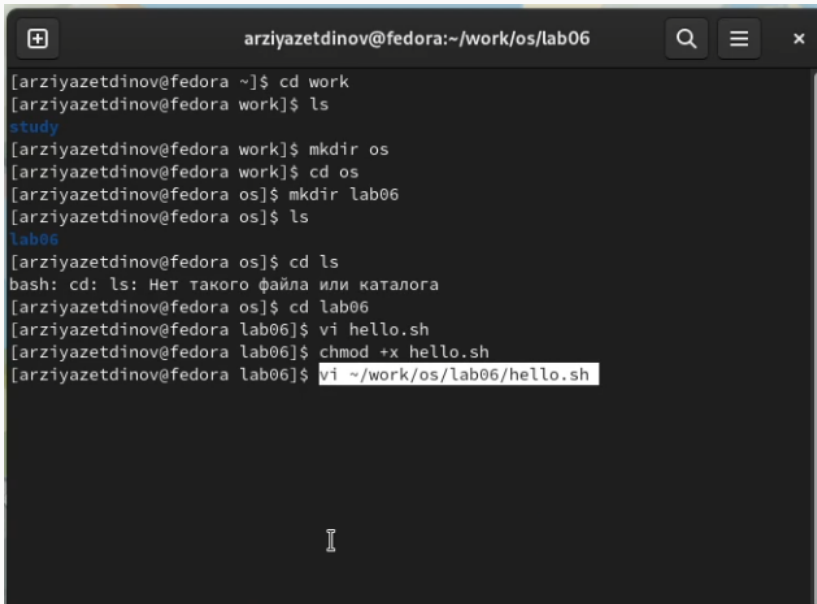
“w” (запись) и “q” (выйти).

“Enter” - для сохранения.



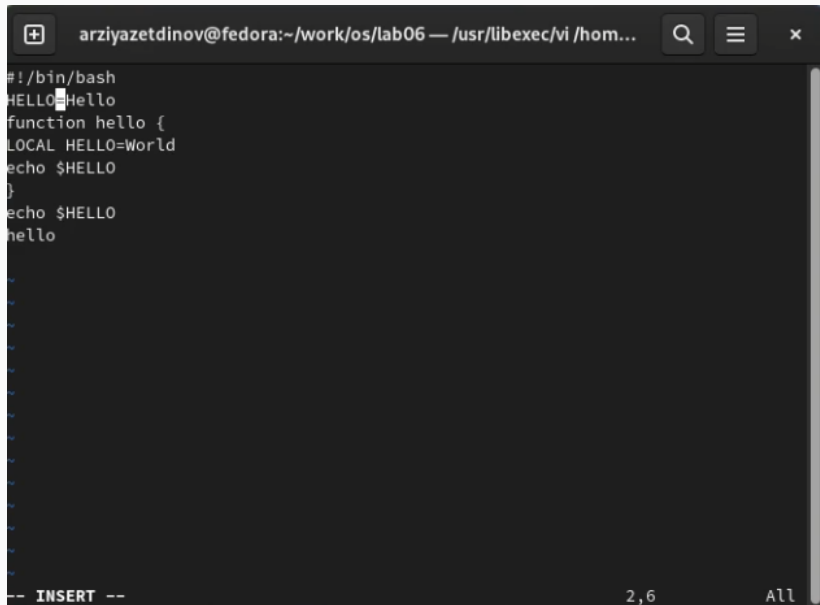
```
arziyazetdinov@fedora:~/work/os/lab06 — /usr/libexec/vi hello...
#!/bin/bash
HELL=Hello
function hello {
  LOCAL HELLO=World
  echo $HELLO
}
echo $HELLO
hello
```

## Исполняемый файл и его вызов на редактирование



```
arziyazetdinov@fedora:~/work/os/lab06
[arziyazetdinov@fedora ~]$ cd work
[arziyazetdinov@fedora work]$ ls
study
[arziyazetdinov@fedora work]$ mkdir os
[arziyazetdinov@fedora work]$ cd os
[arziyazetdinov@fedora os]$ mkdir lab06
[arziyazetdinov@fedora os]$ ls
lab06
[arziyazetdinov@fedora os]$ cd ls
bash: cd: ls: Нет такого файла или каталога
[arziyazetdinov@fedora os]$ cd lab06
[arziyazetdinov@fedora lab06]$ vi hello.sh
[arziyazetdinov@fedora lab06]$ chmod +x hello.sh
[arziyazetdinov@fedora lab06]$ vi ~/work/os/lab06/hello.sh
```

## Замена слова



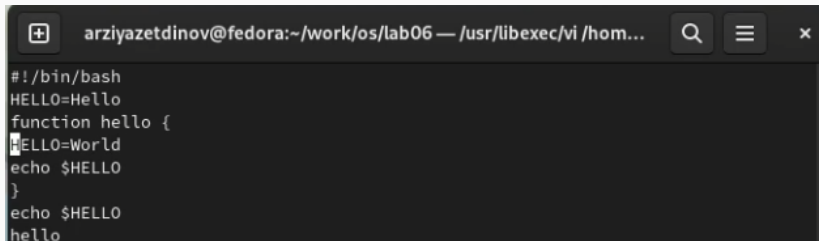
The image shows a terminal window with a dark background. The title bar at the top reads "arziyazetdinov@fedora:~/work/os/lab06 — /usr/libexec/vi /hom...". The terminal content shows a shell script being edited and then executed. The script defines a function named "hello" that sets a local variable "HELLO" to "World" and prints it. After the function definition, the variable "HELLO" is printed again, and the function "hello" is called. The output of the script is "Hello" followed by "World" on a new line. The terminal status bar at the bottom shows "-- INSERT --", "2,6", and "All".

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

Output:

```
Hello
World
```

Terminal status bar: -- INSERT -- 2,6 All



The image shows a terminal window with a dark background. The title bar at the top contains a plus icon, the text 'arziyazetdinov@fedora:~/work/os/lab06 — /usr/libexec/vi /hom...', a search icon, a menu icon, and a close icon. The terminal content is as follows:

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

The cursor is positioned at the start of the line 'HELLO=World'.

Рис. 6: Удаление слова и добавление нового



## Добавление новой строки



A terminal window with a dark background. The title bar shows the user 'arziyazetdinov@fedora' and the current directory path. The terminal content shows a bash shell prompt, followed by variable assignments and a function definition. A new line is being added to the function definition.

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

Рис. 7: Добавление новой строки

## Удаление всей строки

“d” - двойное нажатие для удаления всей строки.



```
arziyazetdinov@fedora:~/work/os/lab06 — /usr/libexec/vi /hom...
#!/bin/bash
HELLO=Hello
function hello {
local HELLO=World
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
```

Рис. 8: Удаление всей строки

## Отмена последней команды

“u” - для отмены последней команды.



A terminal window with a dark background and light gray text. The window title bar shows the user 'arziyazetdinov' on a 'fedora' system, with the current directory being '~ /work/os/lab06' and the editor being 'vi'. The terminal content shows a bash script being executed. The script defines a function 'hello' that sets a local variable 'HELLO' to 'World' and prints it. After the function definition, the script prints the value of 'HELLO' twice, once before and once after calling the 'hello' function. The output shows 'Hello' followed by 'World'.

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

## Выводы

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В ходе выполнения лабораторной работы мы познакомились с операционной системой Linux и получили практические навыки работы с редактором vi, установленным по умолчанию практически во всех дистрибутивах.

Спасибо за внимание!