

# Редактор Vi

---

Анна Тарасова<sup>1</sup>

1 апреля, 2024, Москва, Россия

<sup>1</sup>Российский Университет Дружбы Народов

# Цели и задачи работы

---

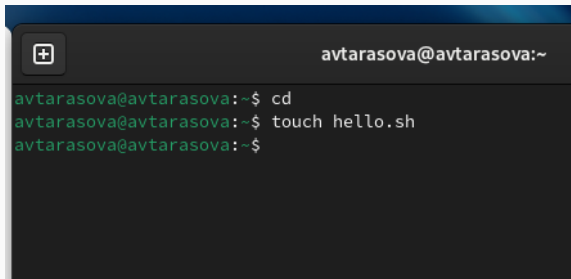
## Цель лабораторной работы

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**

---

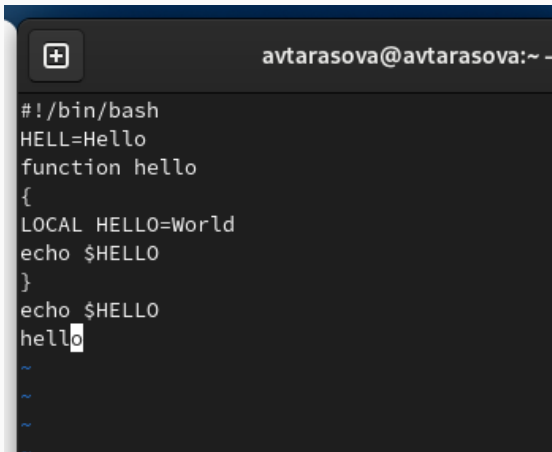


```
avtarasova@avtarasova:~$ cd
avtarasova@avtarasova:~$ touch hello.sh
avtarasova@avtarasova:~$
```

A terminal window with a dark background and a blue header bar. The header bar contains a plus icon in a square on the left and the text 'avtarasova@avtarasova:~' on the right. The terminal shows three lines of text: 'avtarasova@avtarasova:~\$ cd', 'avtarasova@avtarasova:~\$ touch hello.sh', and 'avtarasova@avtarasova:~\$'.

Рис. 1: Создание каталога

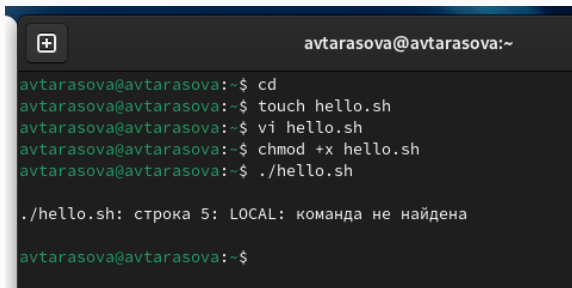
# Выполнение работы



The image shows a terminal window with a dark background. The title bar at the top indicates the user is 'avtarasova@avtarasova:~'. The terminal content shows a series of commands being entered and executed. The first line is the bash prompt '#!/bin/bash'. This is followed by 'HELL=Hello', then a function definition 'function hello' with a block containing 'LOCAL HELLO=World' and 'echo \$HELLO'. After the function definition, 'echo \$HELLO' is entered again. The final line is 'hello', where the cursor is positioned at the end of the word. Below this, three tilde '~' characters are shown on separate lines, indicating the output of the script.

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

**Рис. 2:** Работа в редакторе Vi

A terminal window with a dark background and a blue title bar. The title bar contains a window control icon on the left and the text 'avtarasova@avtarasova:~' on the right. The terminal shows a series of commands and their outputs. The commands are: 'cd', '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 5: LOCAL: команда не найдена'.

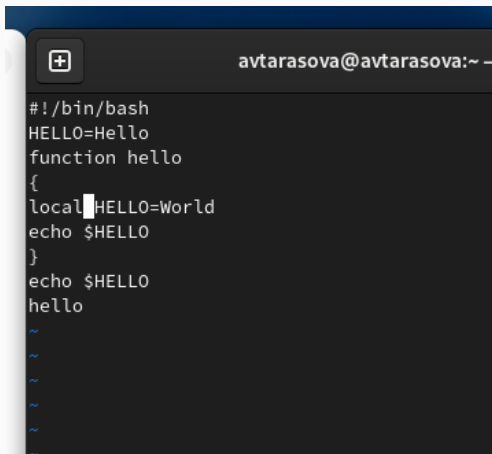
```
avtarasova@avtarasova:~$ cd
avtarasova@avtarasova:~$ touch hello.sh
avtarasova@avtarasova:~$ vi hello.sh
avtarasova@avtarasova:~$ chmod +x hello.sh
avtarasova@avtarasova:~$ ./hello.sh

./hello.sh: строка 5: LOCAL: команда не найдена
avtarasova@avtarasova:~$
```

Рис. 3: Запуск файла



# Выполнение работы

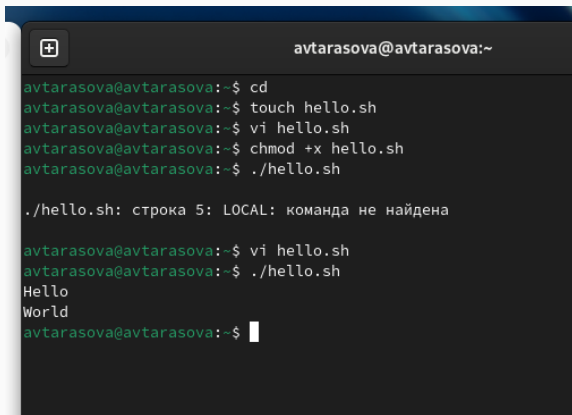


The image shows a terminal window with a dark background. The title bar at the top indicates the user is 'avtarasova' at 'avtarasova:~'. The terminal content shows a shell script being edited. The script defines a function 'hello' that sets 'HELLO' to 'World' and prints it. The cursor is positioned at the end of the line 'local HELLO=World'. Below the script, there are several tilde characters '~' representing command prompts.

```
#!/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 a title bar. The title bar contains a plus icon in a square on the left and the text 'avtarasova@avtarasova:~' on the right. The terminal shows a series of commands and their outputs. The commands are: 'cd', '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 5: LOCAL: команда не найдена'. Then, the user edits the file with 'vi hello.sh' and runs './hello.sh' again, which outputs 'Hello' and 'World' on separate lines. The prompt 'avtarasova@avtarasova:~\$' is followed by a cursor.

```
avtarasova@avtarasova:~$ cd
avtarasova@avtarasova:~$ touch hello.sh
avtarasova@avtarasova:~$ vi hello.sh
avtarasova@avtarasova:~$ chmod +x hello.sh
avtarasova@avtarasova:~$ ./hello.sh

./hello.sh: строка 5: LOCAL: команда не найдена

avtarasova@avtarasova:~$ vi hello.sh
avtarasova@avtarasova:~$ ./hello.sh
Hello
World
avtarasova@avtarasova:~$
```

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