

# Редактор Vi

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Шах Дхирадж НПИБД-02-20<sup>1</sup>

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

# Цели и задачи работы

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## Цель лабораторной работы

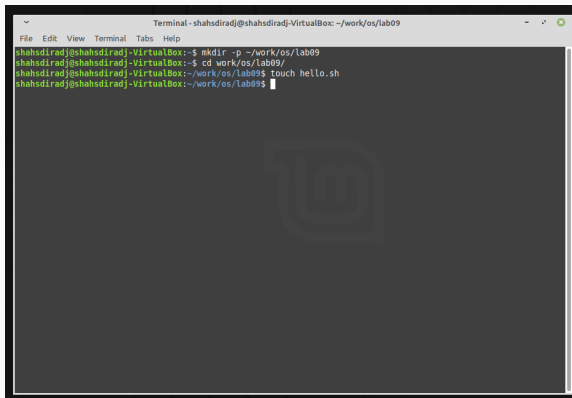
Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором vi, установленным по умолчанию практически во всех дистрибутивах.

1 Изучить возможности редактора Vi

# **Процесс выполнения лабораторной работы**

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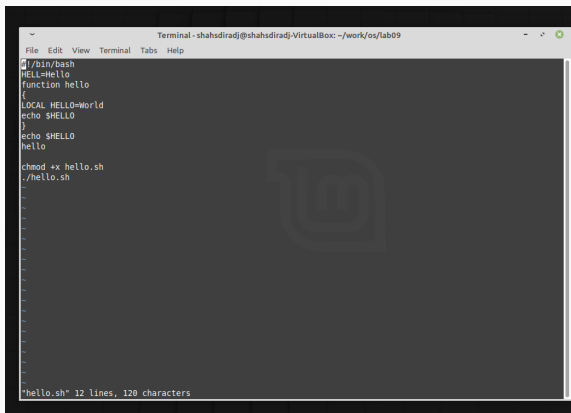
# Выполнение работы

A terminal window titled "Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09". The window has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The terminal output shows three commands being executed: "mkdir -p ~/work/os/lab09", "cd work/os/lab09/", and "touch hello.sh". The prompt "shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09\$" is visible at the end of each line. A faint watermark logo is visible in the background of the terminal window.

```
Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09
File Edit View Terminal Tabs Help
shahsdiradj@shahsdiradj-VirtualBox:~$ mkdir -p ~/work/os/lab09
shahsdiradj@shahsdiradj-VirtualBox:~$ cd work/os/lab09/
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$ touch hello.sh
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$
```

**Figure 1:** Создание каталога

# Выполнение работы



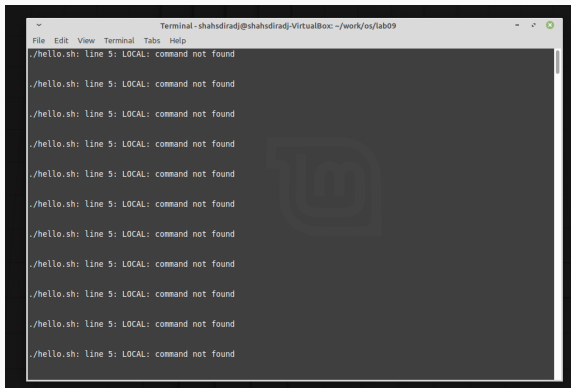
```
Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09
File Edit View Terminal Tabs Help
~/bin/bash
HELL=Hello
function hello
{
  LOCAL_HELL=World
  echo $HELL
}
echo $HELL
hello

chmod +x hello.sh
./hello.sh

"hello.sh" 12 lines, 120 characters
```

**Figure 2:** Работа в редакторе Vi

# Выполнение работы

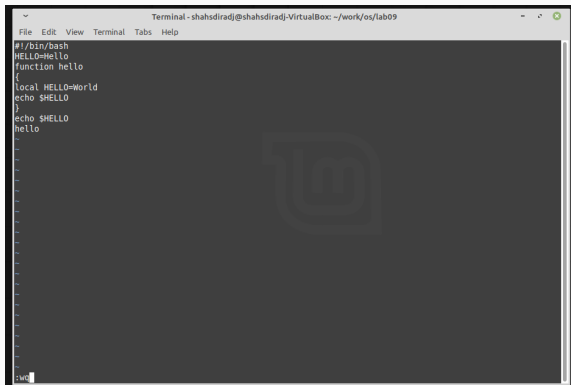
A terminal window titled 'Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09'. The window contains a menu bar with 'File', 'Edit', 'View', 'Terminal', 'Tabs', and 'Help'. The main area shows ten lines of text, each starting with './hello.sh: line 5: LOCAL: command not found'. A faint, large watermark of a stylized 'S' is visible in the background of the terminal window.

```
Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09
File Edit View Terminal Tabs Help
./hello.sh: line 5: LOCAL: command not found
./hello.sh: line 5: LOCAL: command not found
./hello.sh: line 5: LOCAL: command not found
./hello.sh: line 5: LOCAL: command not found
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./hello.sh: line 5: LOCAL: command not found
./hello.sh: line 5: LOCAL: command not found
```

**Figure 3:** Запуск файла



# Выполнение работы

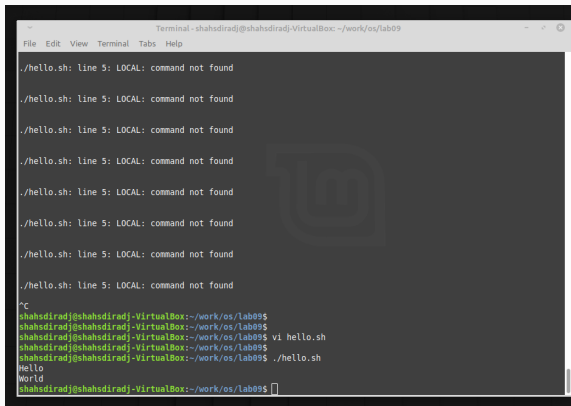
A terminal window titled "Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09". The window contains a bash script that defines a function named "hello" and then calls it. The script is as follows:

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

The terminal shows the output of the script, which is "World". The prompt is "shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09\$".

**Figure 4:** Работа в редакторе Vi

# Выполнение работы

A screenshot of a terminal window titled "Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09". The terminal shows a series of commands and their outputs. The first part of the output consists of seven identical lines: `./hello.sh: line 5: LOCAL: command not found`. This is followed by a carriage return `^C`. Then, the user enters `shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$ vi hello.sh`, which is followed by `shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$ ./hello.sh`. The output of this command is `Hello` on one line and `World` on the next line. The prompt `shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$` is visible at the bottom.

```
Terminal - shahsdiradj@shahsdiradj-VirtualBox: ~/work/os/lab09
File Edit View Terminal Tabs Help

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

./hello.sh: line 5: LOCAL: command not found

^C
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$ vi hello.sh
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$ ./hello.sh
Hello
World
shahsdiradj@shahsdiradj-VirtualBox:~/work/os/lab09$
```

**Figure 5:** Повторный запуск файла

## **Выводы по проделанной работе**

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