

# Редактор Vi

---

Камолов Жахонгир Джафарович<sup>1</sup>

28 апреля, 2024, Москва, Россия

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

# Цели и задачи работы

---

## Цель лабораторной работы

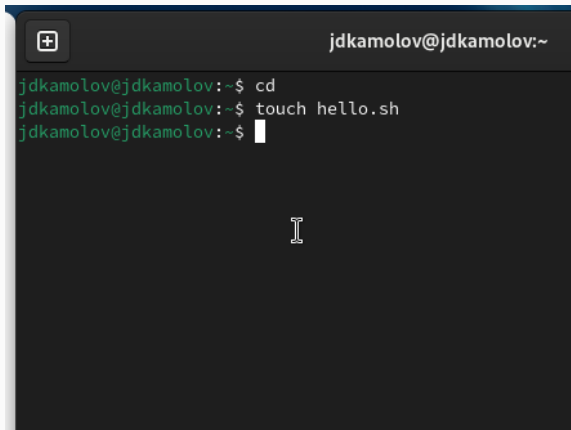
Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором vi, установленным по умолчанию практически во всех дистрибутивах.

1 Изучить возможности редактора Vi

# **Процесс выполнения лабораторной работы**

---

# Выполнение работы

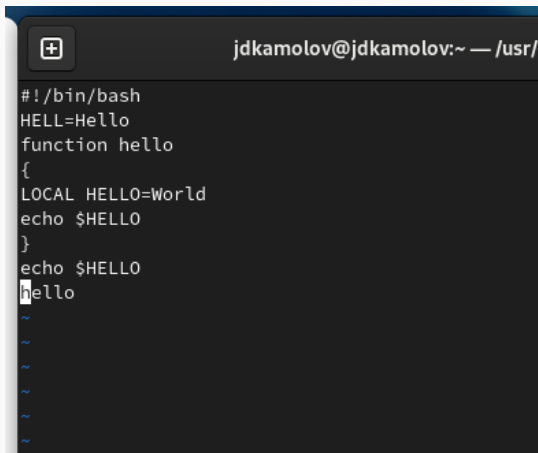


A terminal window with a dark background. The title bar at the top shows a window icon on the left and the text 'jdkamolov@jdkamolov:~' on the right. The terminal content shows three lines of text: 'jdkamolov@jdkamolov:~\$ cd', 'jdkamolov@jdkamolov:~\$ touch hello.sh', and 'jdkamolov@jdkamolov:~\$' followed by a white cursor block. A large white letter 'I' is centered below the terminal window.

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

**Рис. 1:** Создание каталога

# Выполнение работы

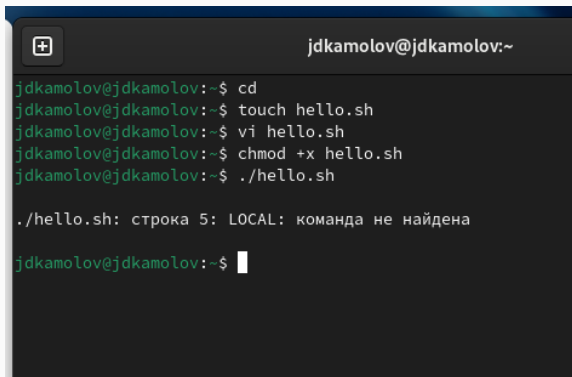


The image shows a terminal window with a dark background. The title bar at the top indicates the user is 'jdkamolov' at 'jdkamolov:~' with the current directory set to '/usr/'. Inside the terminal, a shell script is being displayed and edited. The script contains the following code:

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

The cursor is positioned at the end of the 'hello' command on the last line. Below the script, there are several tilde (~) characters, likely representing the output of the script or the state of the editor.

**Рис. 2:** Работа в редакторе Vi



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 'jdkamolov@jdkamolov:~' on the right. The terminal shows a series of commands and their output. The commands are: 'cd', 'touch hello.sh', 'vi hello.sh', 'chmod +x hello.sh', and './hello.sh'. The output for the last command is './hello.sh: строка 5: LOCAL: команда не найдена'. The prompt 'jdkamolov@jdkamolov:~\$' is shown at the end of each line, with a cursor at the end of the last line.

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

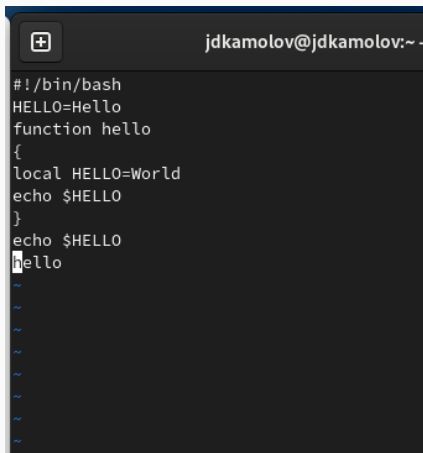
./hello.sh: строка 5: LOCAL: команда не найдена

jdkamolov@jdkamolov:~$
```

Рис. 3: Запуск файла



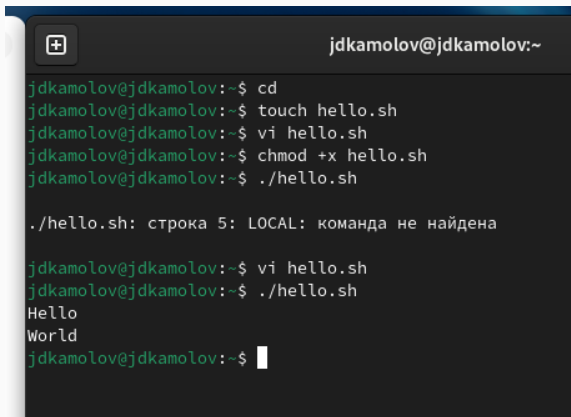
# Выполнение работы



The image shows a terminal window with a dark background. The title bar at the top indicates the user is 'jdkamolov' at 'jdkamolov:~'. Inside the terminal, a bash shell is active, indicated by the prompt '#!/bin/bash'. The user has entered a script that defines a 'hello' function. The function sets a local variable 'HELLO' to 'World' and prints it. After the function definition, the user has typed 'hello' and is currently in the Vi editor, as evidenced by the '~' characters on the subsequent lines.

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

**Рис. 4:** Работа в редакторе Vi



A terminal window with a dark background and a title bar. The title bar contains a window control icon on the left and the text 'jdkamolov@jdkamolov:~' 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'. The second './hello.sh' command results in the output 'Hello' followed by 'World' on the next line. The prompt 'jdkamolov@jdkamolov:~\$' is followed by a cursor.

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

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

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

**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