

Редактор Emacs

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Цели и задачи работы

Цель лабораторной работы

Познакомиться с операционной системой Linux. Получить практические навыки работы с редактором Emacs.

1 Изучить возможности редактора Emacs

Процесс выполнения лабораторной работы

Выполнение работы

1. Откроем Emacs.

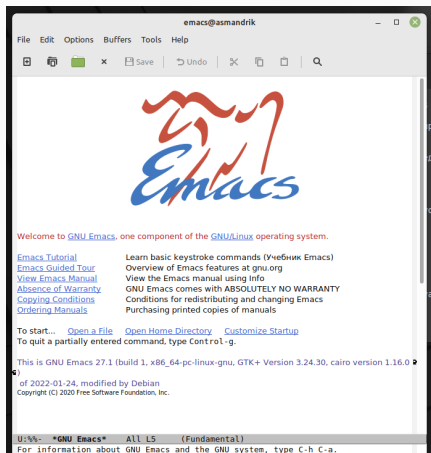
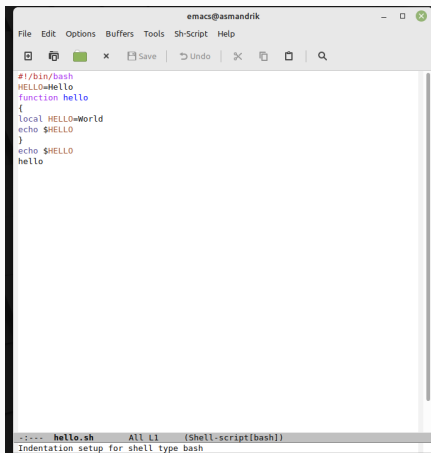


Figure 1: Запуск Emacs

Выполнение работы



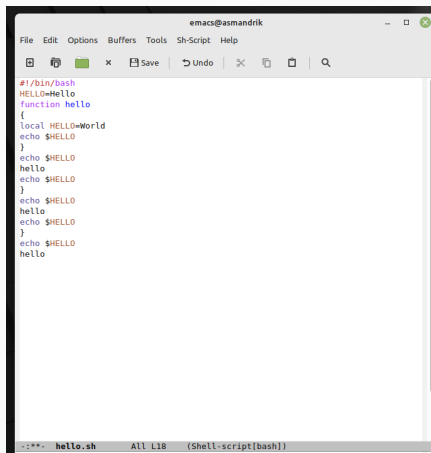
The image shows a screenshot of the Emacs text editor window. The title bar at the top reads 'emacs@asmandrik'. Below the title bar is a menu bar with 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. Underneath the menu bar is a toolbar with icons for file operations and editing. The main editing area contains the following text:

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

At the bottom of the window, a status bar displays the following information: '--- hello.sh All L1 (Shell-script{bash})' and 'Indentation setup for shell type bash'.

Figure 2: Новый файл

Выполнение работы



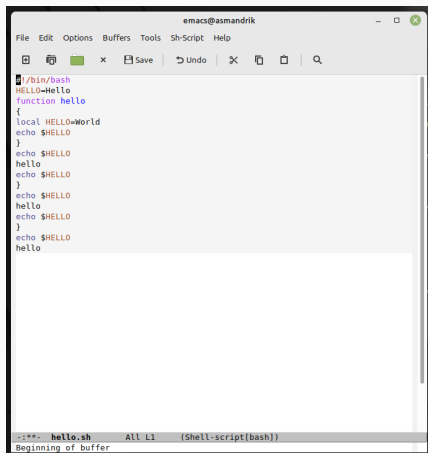
The screenshot shows the Emacs editor window titled 'emacs@asmandrik'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current buffer is 'hello.sh', line 18, and the mode is '(Shell-script(bash))'.

Figure 3: Операция вставка

Выполнение работы



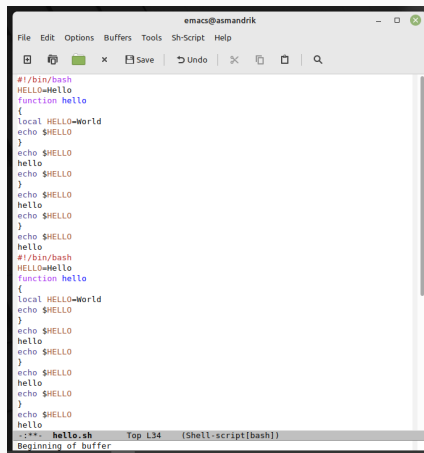
The screenshot shows an Emacs editor window titled "emacs@asmandrik". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "Sh-Script", and "Help". The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The block of code from the function definition to the final "hello" output is highlighted in light blue. The status bar at the bottom indicates the current buffer is "hello.sh", line 11, column 1, in a shell script mode.

Figure 4: Выделение блока

Выполнение работы



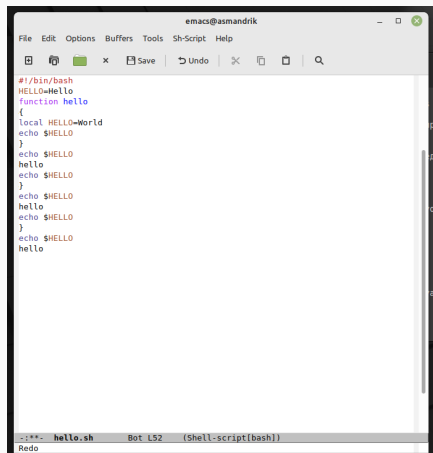
The image shows a screenshot of an Emacs editor window titled "emacs@asmandrik". The window contains a shell script with the following content:

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

The status bar at the bottom of the window indicates the current position: "2*** hello.sh Top L34 (Shell-script[bash])" and "Beginning of buffer".

Figure 5: Копирование блока

Выполнение работы



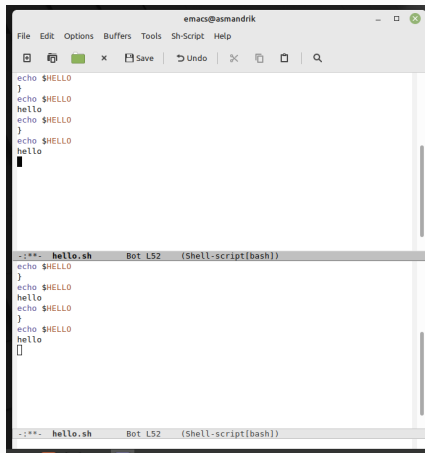
The screenshot shows the Emacs editor window titled 'emacs@asmandrik'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main text area displays a shell script with the following content:

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

The status bar at the bottom shows the file name 'hello.sh', the cursor position 'Bot L52', and the buffer '(Shell-script[bash])'. The 'Redo' button is visible on the left side of the status bar.

Figure 6: Удаление блока

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@asmandrik'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and editing. The main editing area is split horizontally into two panes. The top pane contains a shell script with the following content:

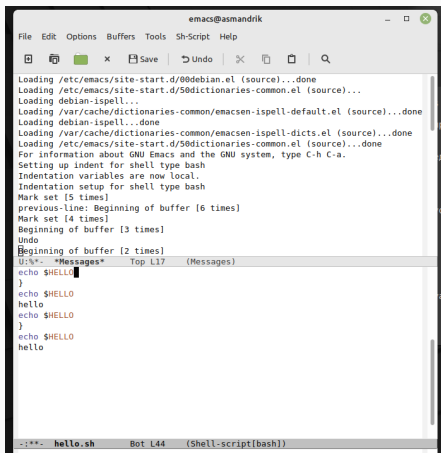
```
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO
hello
```

The bottom pane shows the output of the script execution, with a prompt '--- hello.sh Bot L52 (Shell-script{bash})' and the following content:

```
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO
hello
```

Figure 7: Горизонтальное разделение

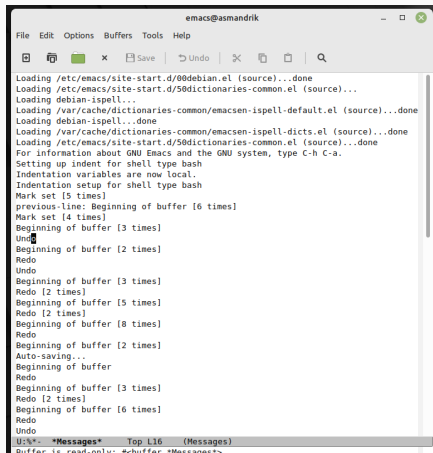
Выполнение работы



```
emacs@asmandrik
File Edit Options Buffers Tools Sh-Script Help
[Icons] Save Undo [Icons]
Loading /etc/emacs/site-start.d/00debian.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...
Loading debian-ispell...
Loading /var/cache/dictionaries-common/emacsen-ispell-default.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacsen-ispell-dicts.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...done
For information about GNU Emacs and the GNU system, type C-h C-a.
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
Mark set [5 times]
previous-line: Beginning of buffer [6 times]
Mark set [4 times]
Beginning of buffer [3 times]
Undo
Beginning of buffer [2 times]
U:~*- *Messages* Top L17 (Messages)
echo $HELLO
}
echo $HELLO
hello
echo $HELLO
}
echo $HELLO
hello
Bot L44 (Shell-script[bash])
```

Figure 8: Переключение буфера

Выполнение работы

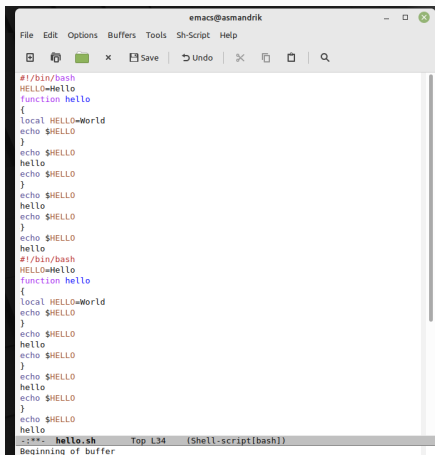


```
emacs@asmandrik
File Edit Options Buffers Tools Help
[Icons] Save Undo [Icons] Search

Loading /etc/emacs/site-start.d/00debian.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...done
Loading debian-ispell...done
Loading /var/cache/dictionaries-common/emacs-ispell-default.el (source)...done
Loading /var/cache/dictionaries-common/emacs-ispell-dicts.el (source)...done
Loading /etc/emacs/site-start.d/50dictionaries-common.el (source)...done
For information about GNU Emacs and the GNU system, type C-h C-a.
Setting up indent for shell type bash
Indentation variables are now local.
Indentation setup for shell type bash
Mark set [5 times]
previous-line: Beginning of buffer [6 times]
Mark set [4 times]
Beginning of buffer [3 times]
Undo
Beginning of buffer [2 times]
Redo
Undo
Beginning of buffer [3 times]
Redo [2 times]
Beginning of buffer [5 times]
Redo [2 times]
Beginning of buffer [8 times]
Redo
Beginning of buffer [2 times]
Auto-saving...
Beginning of buffer
Redo
Beginning of buffer [3 times]
Redo [2 times]
Beginning of buffer [6 times]
Redo
Undo
U: %- *Messages* Top L16 (Messages)
Buffer is read-only: #<buffer *Messages*>
```

Figure 9: Закроем буфер

Выполнение работы



The screenshot shows the Emacs editor window titled 'emacs@asmandrik'. The menu bar includes 'File', 'Edit', 'Options', 'Buffers', 'Tools', 'Sh-Script', and 'Help'. The toolbar contains icons for file operations and search. The main text area displays a shell script with the following content:

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

The status bar at the bottom indicates the current buffer is 'hello.sh', line 134, and the mode is '(Shell-script(bash))'. Below the status bar, it says 'Beginning of buffer'.

Figure 10: Переключение буфера

Выполнение работы

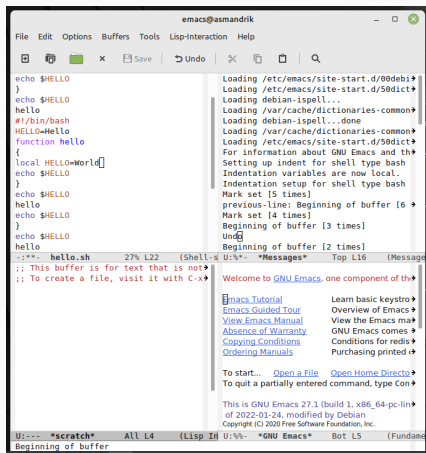


Figure 11: Четыре буфера

Выполнение работы

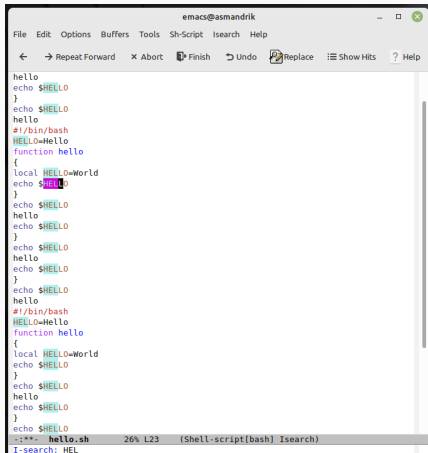


Figure 12: Режим поиска

Выводы по проделанной работе

В данной работе мы познакомились с еще одним редактором операционной системой Linux. Получили практические навыки работы с редактором Emacs.