

Цель: получить навыки работы с текстовым редактором vi, архиватором tar и пакетами в Linux Slackware

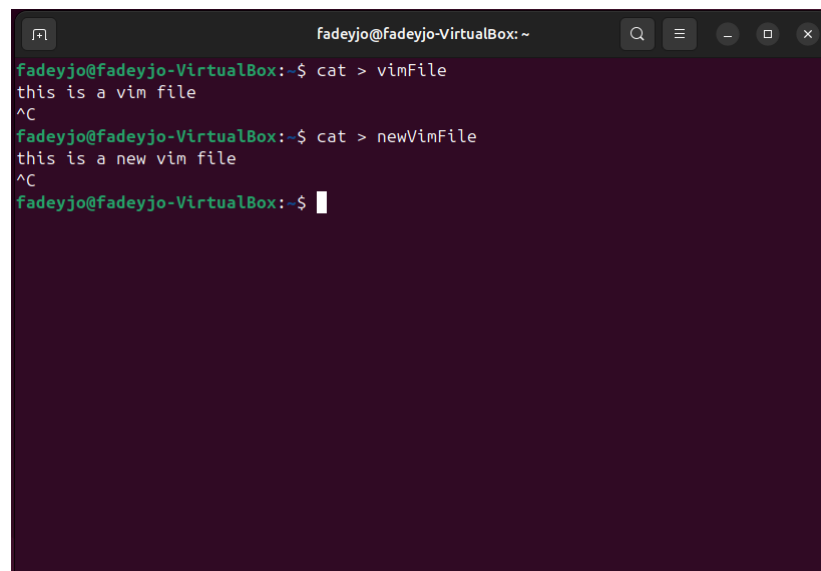
Задача: изучить теоретический материал

Формулировка задания №1:

Работа с редактором vi

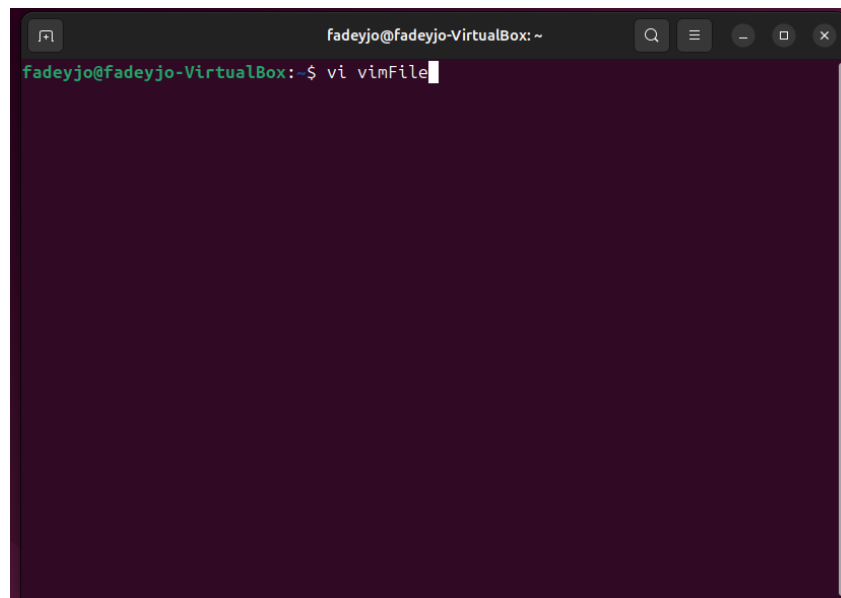
- Открытие файла
- Создание
- Изменение
- Запись
- Перемещение по файлу и поиск
- Выход без записи
- Использование методов копирования и вставки

Выполнение задания №1:



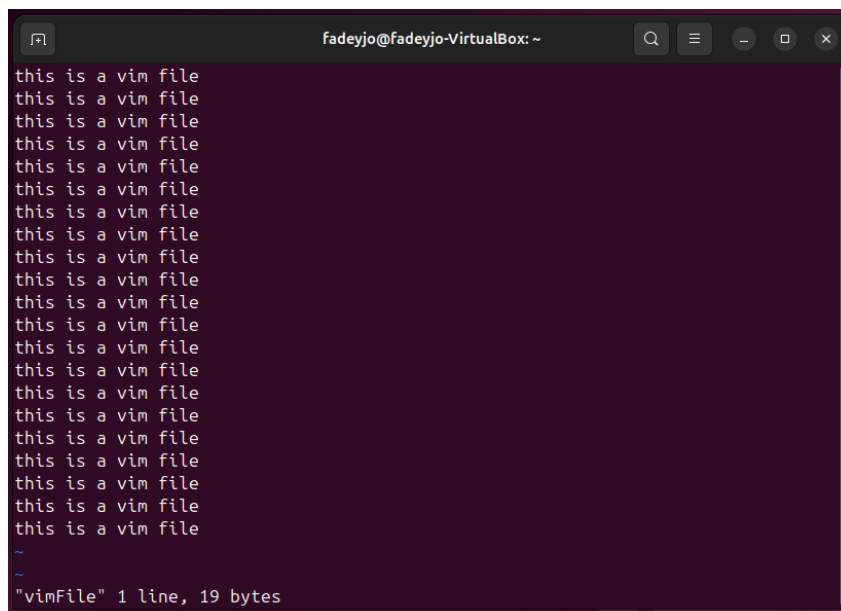
```
fadeyjo@fadeyjo-VirtualBox: ~  
fadeyjo@fadeyjo-VirtualBox:~$ cat > vimFile  
this is a vim file  
^C  
fadeyjo@fadeyjo-VirtualBox:~$ cat > newVimFile  
this is a new vim file  
^C  
fadeyjo@fadeyjo-VirtualBox:~$
```

Figure 1 Создание файлов vimFile и newVimFile с 1 строкой



```
fadeyjo@fadeyjo-VirtualBox: ~  
fadeyjo@fadeyjo-VirtualBox:~$ vi vimFile
```

Figure 2 Открыть файл vimFile в VI



```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
~  
"vimFile" 1 line, 19 bytes
```

Figure 3 Заполнение файла vimFile с помощью yy и p

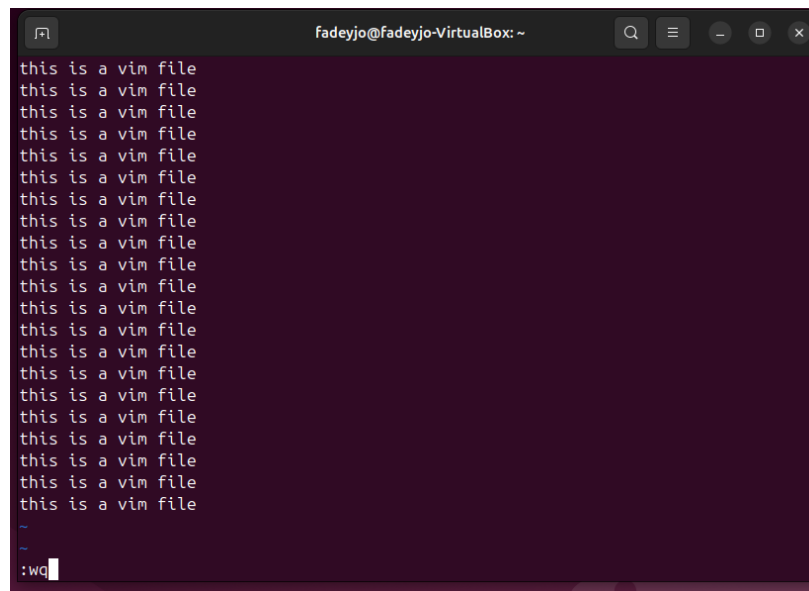


Figure 4 Сохранение и выход из файла vimFile

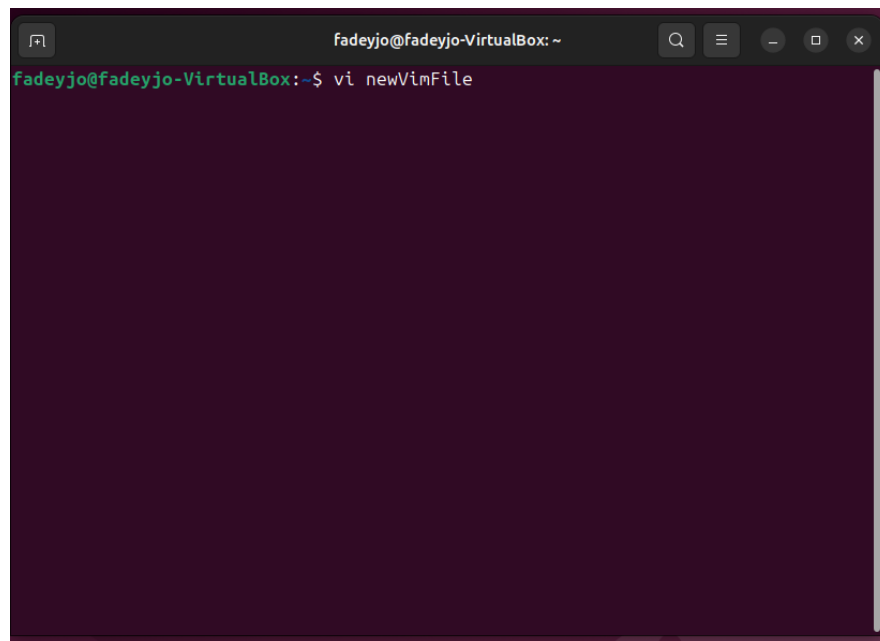
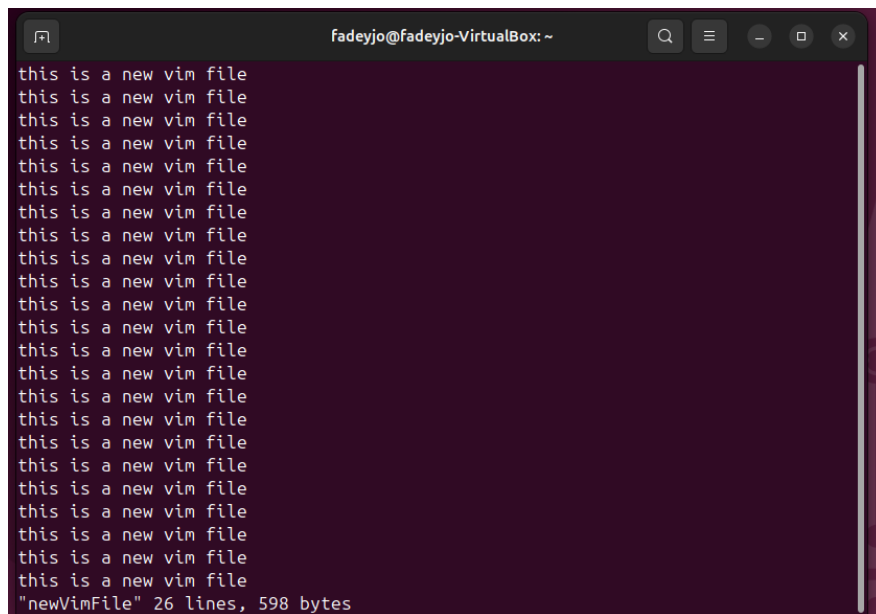
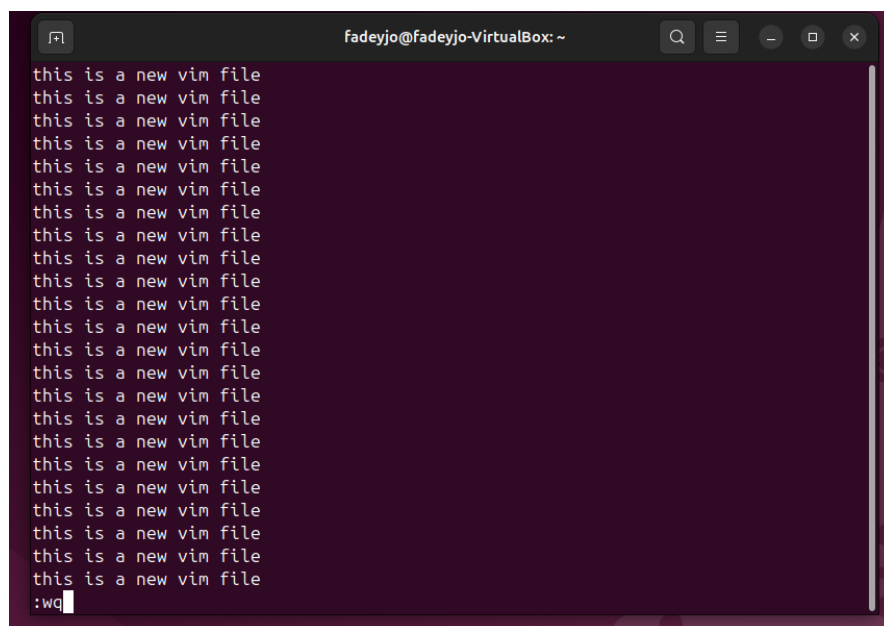


Figure 5 Открыть файл newVimFile в VI



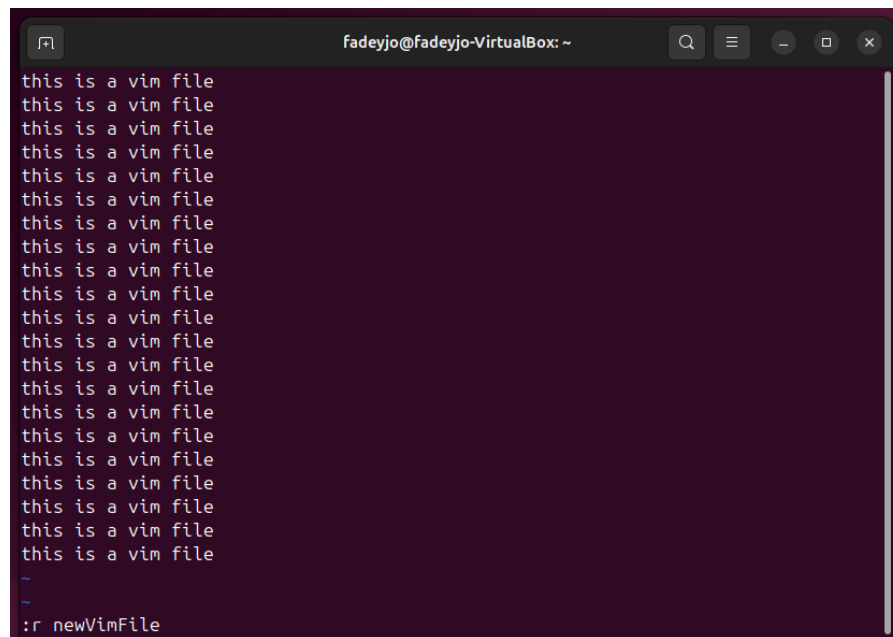
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
"newVimFile" 26 lines, 598 bytes
```

Figure 6 Заполнение файла newVimFile с помощью у и р



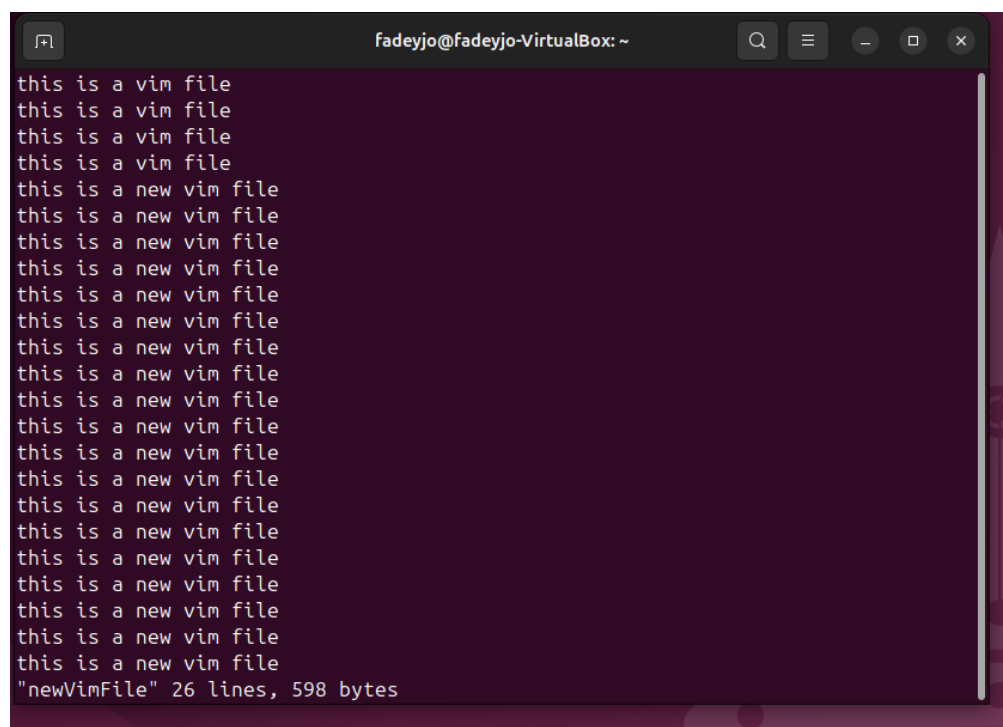
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
:wq
```

Figure 7 Сохранение и выход из файла newVimFile



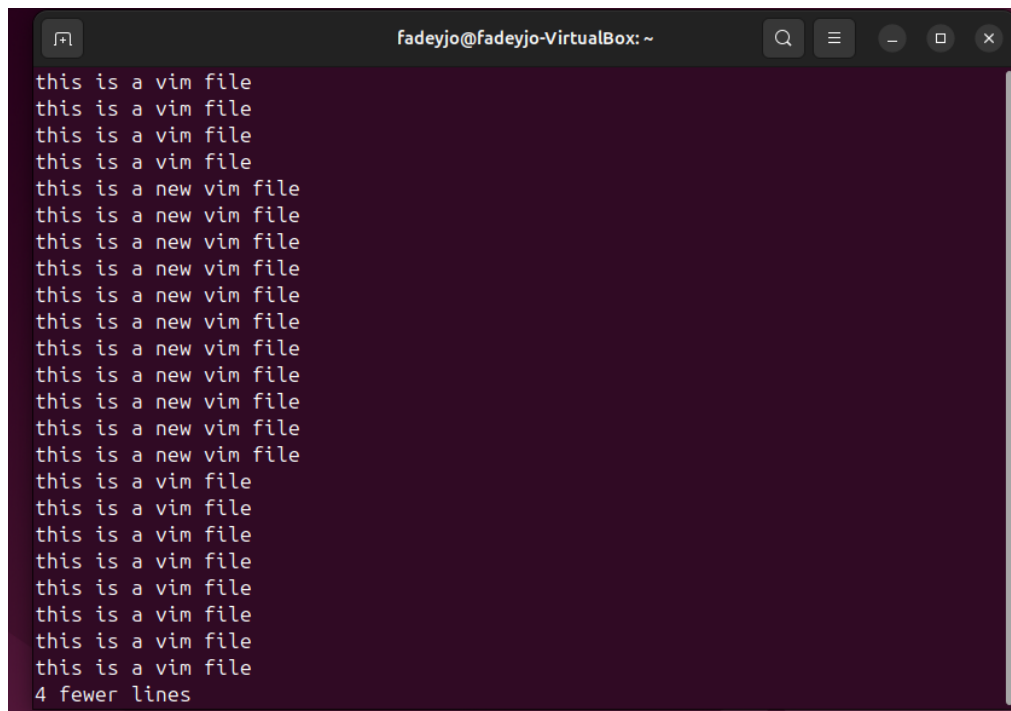
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
~  
~  
:r newVimFile
```

Figure 8 Вставка в буфер содержимое из newVimFile



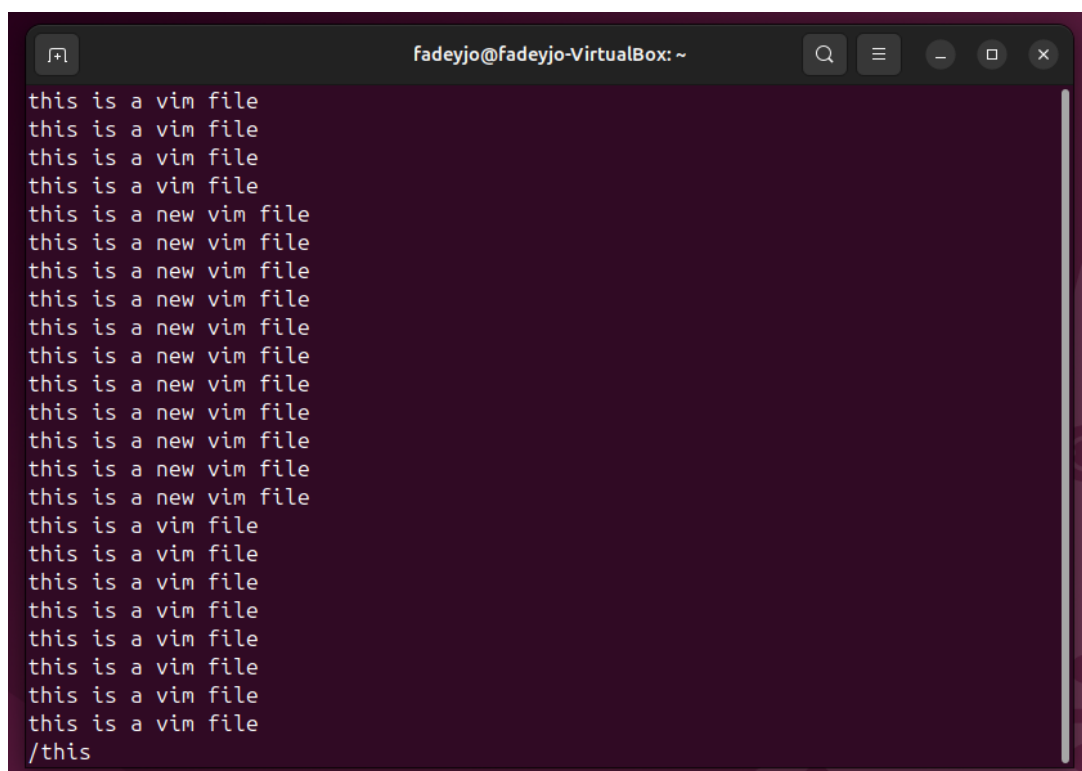
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
"newVimFile" 26 lines, 598 bytes
```

Figure 9 Результата вставки из другого файла



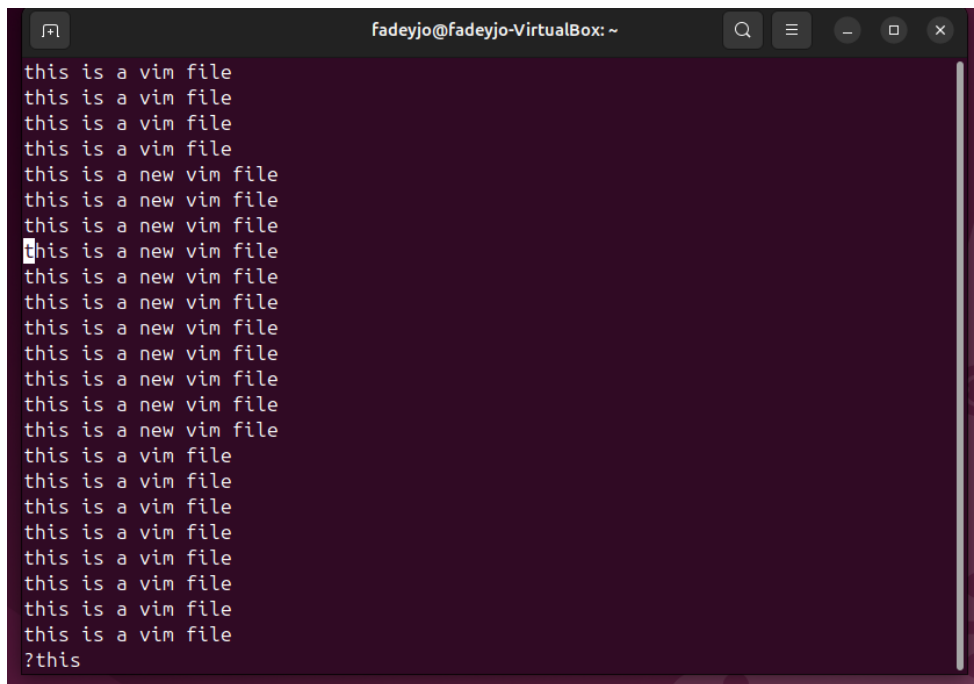
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
4 fewer lines
```

Figure 10 Вырезание с помощью dd



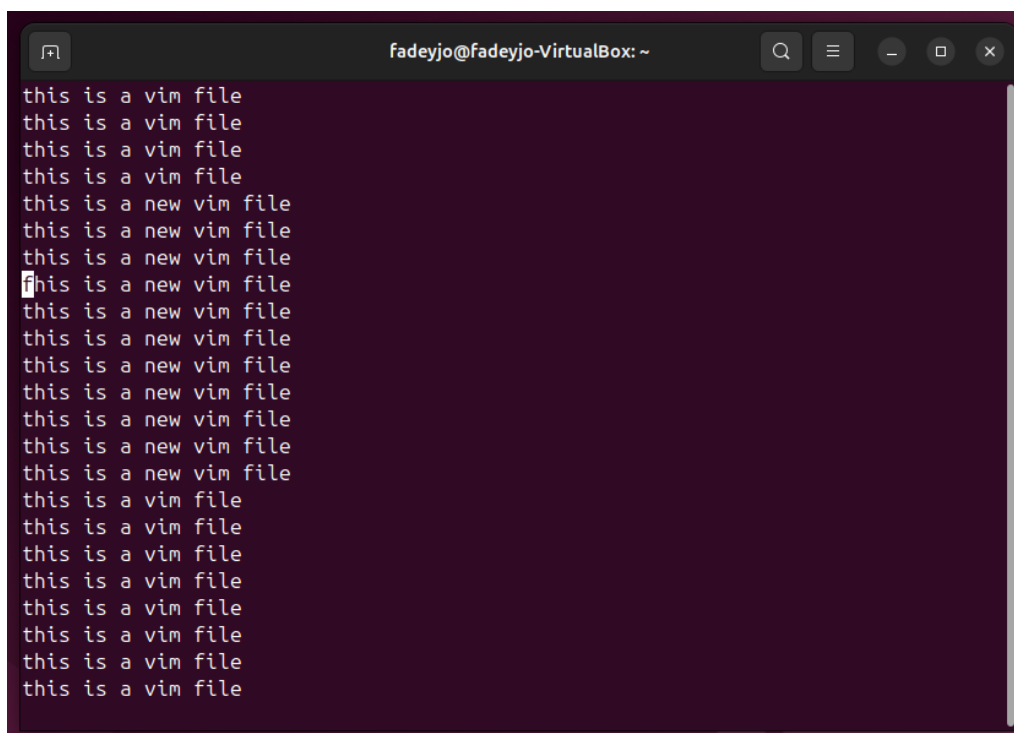
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
/this
```

Figure 11 Поиск строки вперед



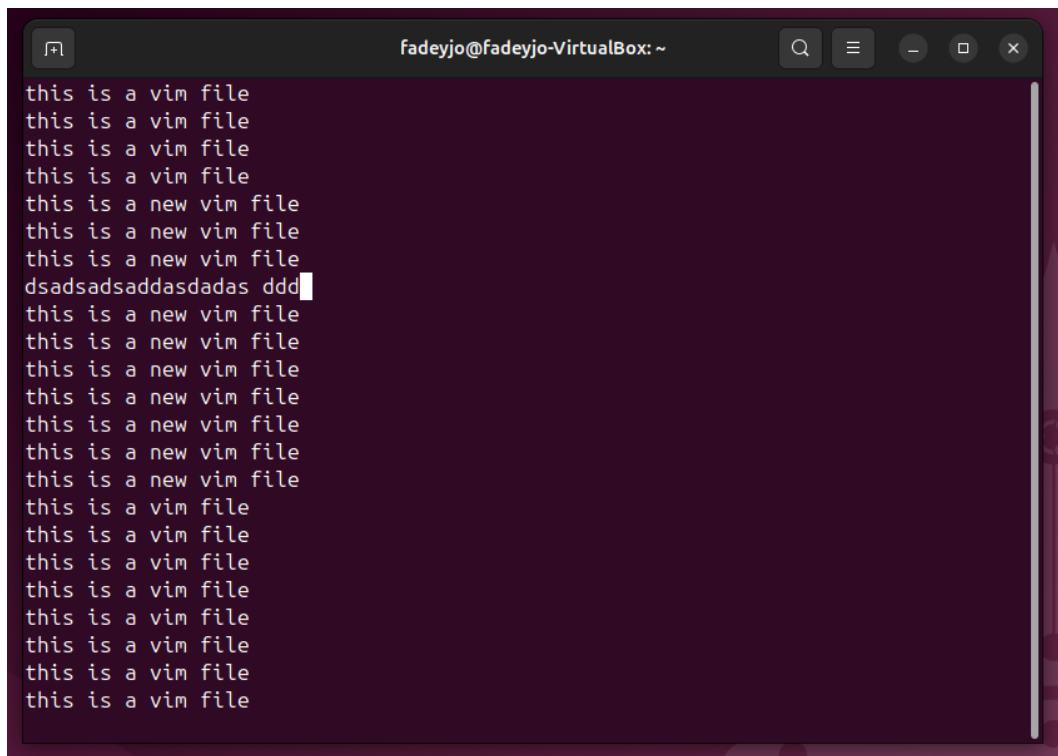
```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
|this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
?this
```

Figure 12 Поиск строки назад



```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
|this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file
```

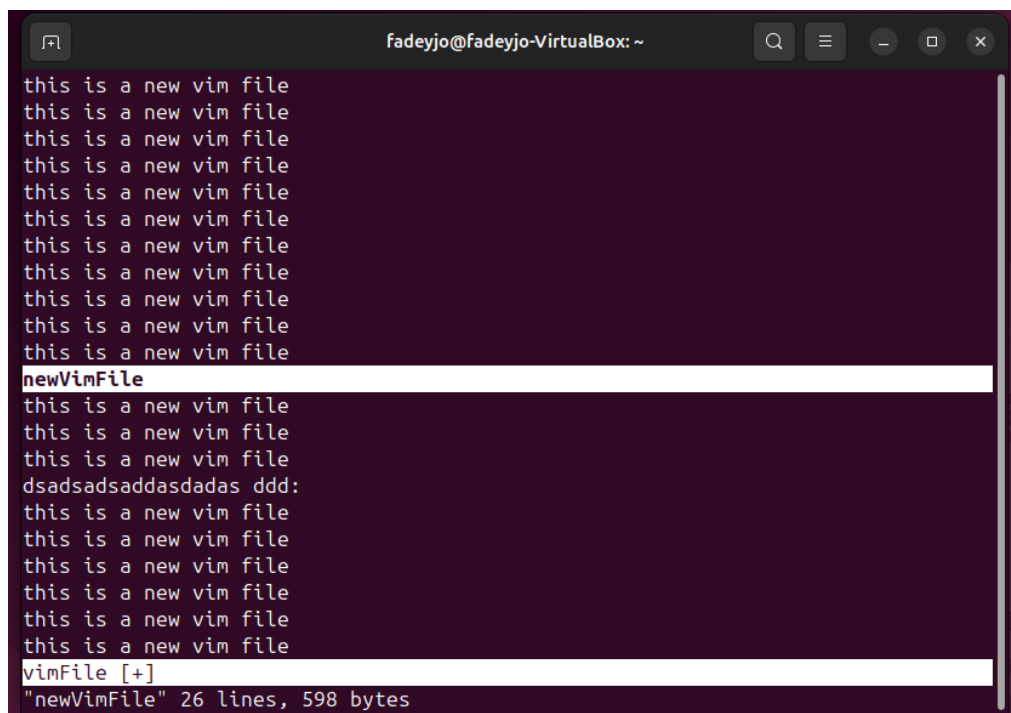
Figure 13 Замена символа с помощью r



A terminal window titled 'fadeyjo@fadeyjo-VirtualBox: ~' showing a Vim editor. The editor contains 26 lines of text. The first 10 lines are 'this is a vim file', the next 10 are 'this is a new vim file', and the last 6 are 'this is a vim file'. The cursor is at the end of the 10th line, which is 'this is a new vim file'.

```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
dsadsadsaddasdadas ddd  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file  
this is a vim file
```

Figure 14 Множественная замена с помощью R



A terminal window titled 'fadeyjo@fadeyjo-VirtualBox: ~' showing a Vim editor. The editor contains 26 lines of text. The first 10 lines are 'this is a new vim file', the next 10 are 'this is a new vim file', and the last 6 are 'this is a new vim file'. The cursor is at the end of the 10th line, which is 'this is a new vim file'. Below the text, there is a command prompt 'newVimFile' and a status bar showing 'vimFile [+]' and '"newVimFile" 26 lines, 598 bytes'.

```
fadeyjo@fadeyjo-VirtualBox: ~  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
newVimFile  
this is a new vim file  
this is a new vim file  
this is a new vim file  
dsadsadsaddasdadas ddd:  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
this is a new vim file  
vimFile [+]  
"newVimFile" 26 lines, 598 bytes
```

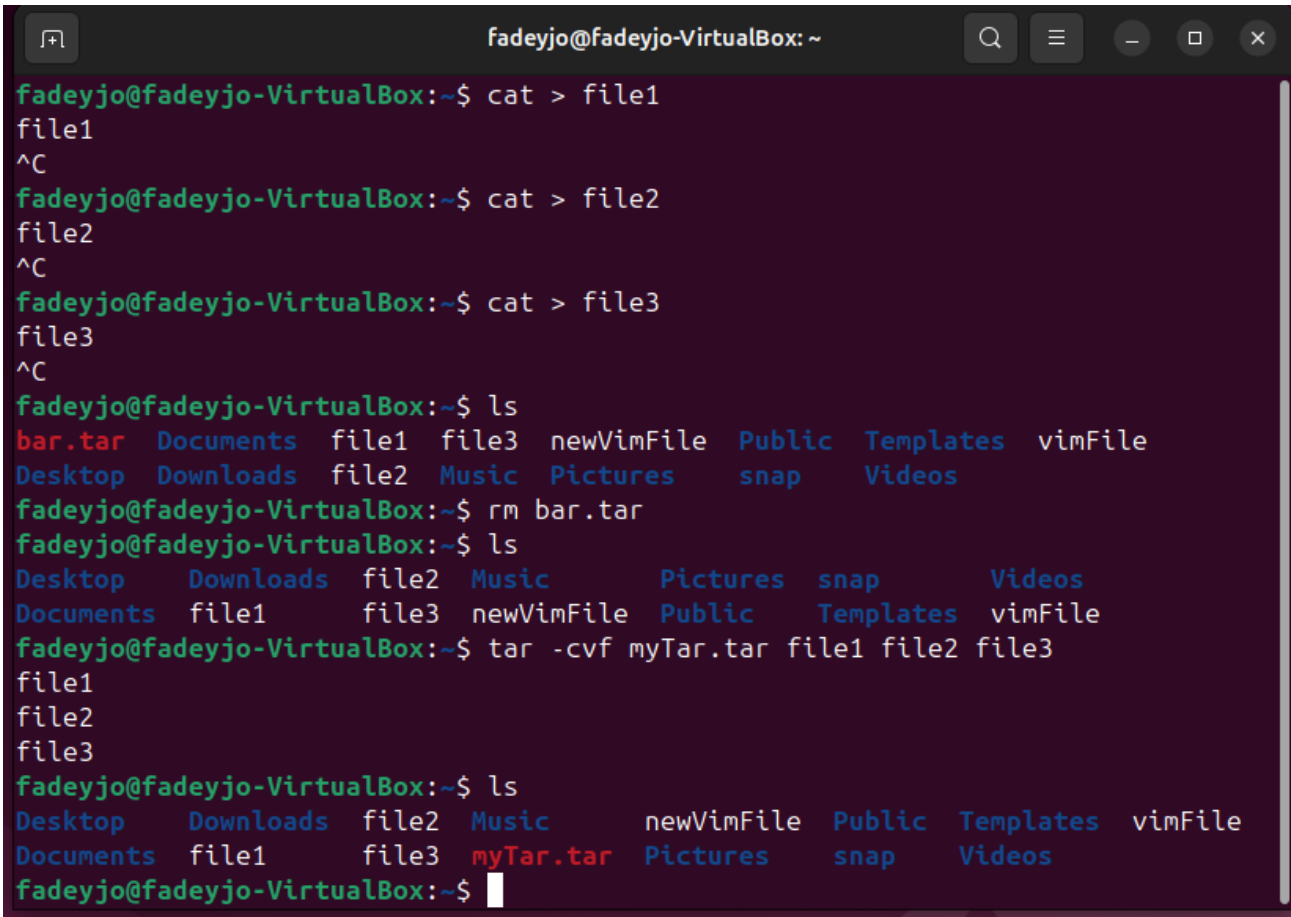
Figure 15 Разделение окна на 2 файла команда split

Формулировка задания №2:

Tar

- Создать тарбол из файлов
- Создать тарбол из каталога с файлами и подкаталогами
- Добавить к предыдущему тарболу файл и/или каталог
- Создать тарбол с архивацией (gz, bz2 и пр.)
- Распаковать архив и записать список извлечённых файлов в файл.

Выполнение задания №2:



```
fadeyjo@fadeyjo-VirtualBox: ~  
fadeyjo@fadeyjo-VirtualBox:~$ cat > file1  
file1  
^C  
fadeyjo@fadeyjo-VirtualBox:~$ cat > file2  
file2  
^C  
fadeyjo@fadeyjo-VirtualBox:~$ cat > file3  
file3  
^C  
fadeyjo@fadeyjo-VirtualBox:~$ ls  
bar.tar  Documents  file1  file3  newVimFile  Public  Templates  vimFile  
Desktop  Downloads  file2  Music  Pictures    snap    Videos  
fadeyjo@fadeyjo-VirtualBox:~$ rm bar.tar  
fadeyjo@fadeyjo-VirtualBox:~$ ls  
Desktop  Downloads  file2  Music    Pictures  snap    Videos  
Documents  file1      file3  newVimFile  Public    Templates  vimFile  
fadeyjo@fadeyjo-VirtualBox:~$ tar -cvf myTar.tar file1 file2 file3  
file1  
file2  
file3  
fadeyjo@fadeyjo-VirtualBox:~$ ls  
Desktop  Downloads  file2  Music    newVimFile  Public  Templates  vimFile  
Documents  file1      file3  myTar.tar  Pictures    snap    Videos  
fadeyjo@fadeyjo-VirtualBox:~$
```

Figure 16 Создание 3 файлов и создание myTar.tar из них

```
fadeyjo@fadeyjo-VirtualBox: ~  
fadeyjo@fadeyjo-VirtualBox:~$ mkdir catalog1  
fadeyjo@fadeyjo-VirtualBox:~$ mkdir catalog2  
fadeyjo@fadeyjo-VirtualBox:~$ mkdir catalog3  
fadeyjo@fadeyjo-VirtualBox:~$ cd catalog1  
fadeyjo@fadeyjo-VirtualBox:~/catalog1$ mkdir subcatalog  
fadeyjo@fadeyjo-VirtualBox:~/catalog1$ cd ../  
fadeyjo@fadeyjo-VirtualBox:~$ cp vimFile catalog1/subcatalog  
fadeyjo@fadeyjo-VirtualBox:~$ cd catalog/subcatalog  
bash: cd: catalog/subcatalog: No such file or directory  
fadeyjo@fadeyjo-VirtualBox:~$ cd catalog1/subcatalog  
fadeyjo@fadeyjo-VirtualBox:~/catalog1/subcatalog$ ls  
vimFile  
fadeyjo@fadeyjo-VirtualBox:~/catalog1/subcatalog$ cd ../../  
fadeyjo@fadeyjo-VirtualBox:~$ tar -cvf catalogTar.tar catalog1 catalog2 catalog3  
catalog1/  
catalog1/subcatalog/  
catalog1/subcatalog/vimFile  
catalog2/  
catalog3/  
fadeyjo@fadeyjo-VirtualBox:~$
```

Figure 17 Создание каталогов с подкаталогами и файлами и создание архива из них

```
fadeyjo@fadeyjo-VirtualBox: ~  
fadeyjo@fadeyjo-VirtualBox:~$ ls  
catalog1  catalogTar.tar  Downloads  file3      newVimFile  snap      vimFile  
catalog2  Desktop         file1      Music     Pictures    Templates  
catalog3  Documents       file2      myTar.tar  Public      Videos  
fadeyjo@fadeyjo-VirtualBox:~$ tar -rvf catalogTar.tar vimFile newVimFile  
vimFile  
newVimFile  
fadeyjo@fadeyjo-VirtualBox:~$ tar -tvf catalogTar.tar  
tar: catalogTar.tar: Cannot open: No such file or directory  
tar: Error is not recoverable: exiting now  
fadeyjo@fadeyjo-VirtualBox:~$ tar -tvf catalogTar.tar  
drwxrwxr-x fadeyjo/fadeyjo  0 2024-10-09 12:32 catalog1/  
drwxrwxr-x fadeyjo/fadeyjo  0 2024-10-09 12:33 catalog1/subcatalog/  
-rw-rw-r-- fadeyjo/fadeyjo 399 2024-10-09 12:33 catalog1/subcatalog/vimFile  
drwxrwxr-x fadeyjo/fadeyjo  0 2024-10-09 12:32 catalog2/  
drwxrwxr-x fadeyjo/fadeyjo  0 2024-10-09 12:32 catalog3/  
-rw-rw-r-- fadeyjo/fadeyjo 399 2024-10-09 12:18 vimFile  
-rw-rw-r-- fadeyjo/fadeyjo 598 2024-10-09 12:09 newVimFile  
fadeyjo@fadeyjo-VirtualBox:~$
```

Figure 18 Добавление файлов в архив и просмотр содержимого архива

```
fadeyjo@fadeyjo-VirtualBox: ~/unarchiveCatalog
fadeyjo@fadeyjo-VirtualBox:~$ ls
catalog1      Desktop      file2        newVimFile   Templates
catalog2      Documents    file3        Pictures      Videos
catalog3      Downloads    Music        Public        vimFile
catalogTar.tar file1        myTar.tar    snap          zArchive.tar.gz
fadeyjo@fadeyjo-VirtualBox:~$ mkdir unarchiveCatalog
fadeyjo@fadeyjo-VirtualBox:~$ ls
catalog1      Documents    Music        snap          zArchive.tar.gz
catalog2      Downloads    myTar.tar    Templates
catalog3      file1        newVimFile   unarchiveCatalog
catalogTar.tar file2        Pictures      Videos
Desktop      file3        Public        vimFile
fadeyjo@fadeyjo-VirtualBox:~$ tar -xzf zArchive.tar.gz -C unarchiveCatalog
tar (child): zArchive.tar.gz: Cannot open: No such file or directory
tar (child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
fadeyjo@fadeyjo-VirtualBox:~$ tar -xzf zArchive.tar.gz -C unarchiveCatalog
file1
file2
file3
fadeyjo@fadeyjo-VirtualBox:~$ cd unarchiveCatalog
fadeyjo@fadeyjo-VirtualBox:~/unarchiveCatalog$ ls
file1 file2 file3
```

Рисунок 1 Распаковка архива .gz

Вывод: в ходе лабораторной работы была изучена работа в редакторе VI и изучены команды tar.