Отчёт по практической работе 1
Задание 1

Создание файла file1

```
Loading...

Welcome to JS/Linux (i586)

Use 'vflogin username' to connect to your account.
You can create a new account at https://vfsync.org/signup .
Use 'export_file filename' to export a file to your computer.
Imported files are written to the home directory.

localhost:~# touch file1
localhost:~#
```

Создание папки package1

```
Loading...

Welcome to JS/Linux (i586)

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You can create a new account at https://vfsync.org/signup .
Use 'export_file filename' to export a file to your computer.
Imported files are written to the home directory.

localhost:~# touch file1
localhost:~# mkdir package1
localhost:~#
```

Перемещение файла в папку

```
Loading...

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Use 'export_file filename' to export a file to your computer.
Imported files are written to the home directory.

localhost:~# touch file1
localhost:~# mkdir package1
localhost:~# mv file1 /root/package1
```

Проверка наличия файла в папке

```
Loading...

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Use 'export_file filename' to export a file to your computer.
Imported files are written to the home directory.

localhost:~# touch file1
localhost:~# mkdir package1
localhost:~# mv file1 /root/package1
localhost:~# cd package1
localhost:~/package1# ls
file1
```
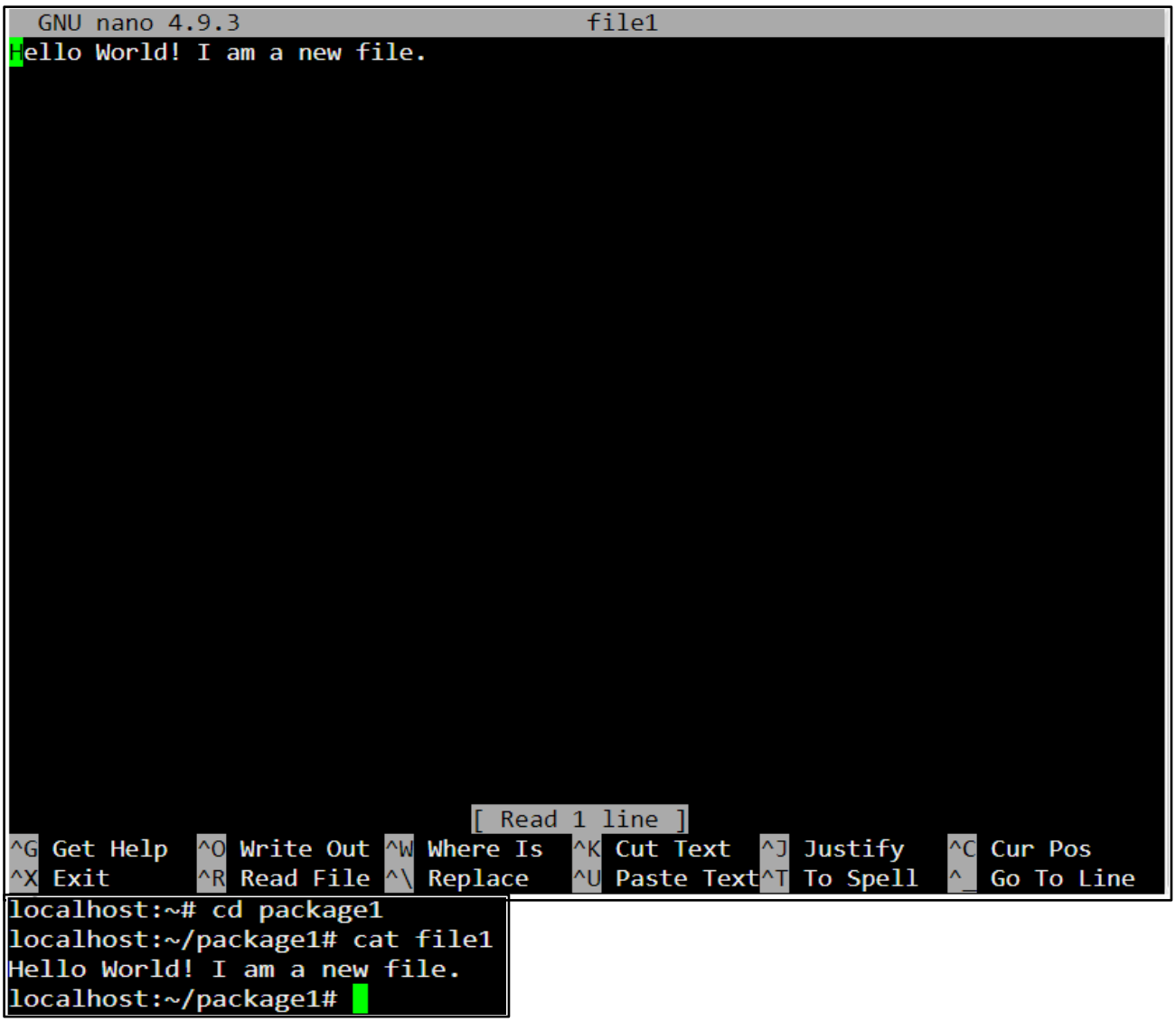

Редактирование файла


GNU nano 4.9.3 file1
Hello World! I am a new file.
[Read 1 line]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line
localhost:~# cd package1
localhost:~/package1# cat file1
Hello World! I am a new file.
localhost:~/package1#

Указываем оболочку

```
  GNU nano 4.9.3                        file1                          Modified
#!/bin/bash
echo "РТУ МИРЭА"
```

Делаем файл исполняемым и пытаемся выполнить

```
localhost:~/package1# chmod +x ./file1
localhost:~/package1# ./file1
РТУ МИРЭА
localhost:~/package1#
```

Задание 2

Вывести отсортированный в алфавитном порядке список имен пользователей в файле passwd (можно через sort или grep).

Используем команду grep, регулярное выражение(для вывода нужных строк), и sort для отсортированного вывода

```
localhost:~# cd /etc
localhost:/etc# grep -o '^[^:]*' passwd | sort
adm
at
bin
cron
cyrus
daemon
dhcp
ftp
games
guest
halt
lp
mail
man
news
nobody
ntp
operator
postmaster
root
shutdown
smmsp
squid
sshd
svn
sync
uucp
vpopmail
```

Задание 3

Вывести данные /etc/protocols в отформатированном и отсортированном порядке для 5 наибольших портов, как показано в примере ниже:

```
localhost:~# cat /etc/protocols | awk '{print $2, $1}' | sort -rnk1,1 | head -n
5
103 pim
98 encap
94 ipip
89 ospf
81 vmtp
localhost:~#
```

Задание 4

```
  GNU nano 4.9.3                          banner.py
#!/usr/bin/env python
# -*- coding: utf-8 -*-
import argparse
def banner(text):
        bord = '+' + '-' * (len(text) + 2) + '+'
        str = '| ' + text + ' |'
        print(bord)
        print(str)
        print(bord)
parser = argparse.ArgumentParser()
parser.add_argument('text', type=str, help='Текст для вывода')
args = parser.parse_args()
banner(args.text)

localhost:~# python banner.py "Hello from RTU MIREA"
+----------------------+
| Hello from RTU MIREA |
+----------------------+
localhost:~#
```

Задание 5

```
  GNU nano 4.9.3                            reg
#!/bin/bash

chmod +x $1
cp $1 /usr/local/bin
echo "Зарегистрировано!"



localhost:/# touch banner
localhost:/# chmod +x ./reg
localhost:/# ./reg banner
Зарегистрировано!
localhost:/# cd /usr/local/bin
localhost:/usr/local/bin# ls
banner          qemacs          settime         vflogin
```