1. Используя команду cat в терминале операционной системы Linux, создать два файла Домашние животные (заполнив файл собаками, кошками, хомяками) и Вьючные животными заполнив файл Лошадьми, верблюдами и ослы), а затем объединить их. Просмотреть содержимое созданного файла. Переименовать файл, дав ему новое имя (Друзья человека)

Создаю и заполняю файл с домашними животными

```
root@ubuntu-ser:~$ cat > Pets
dogs
cats
hamsters

root@ubuntu-ser:~$ cat Pets
dogs
cats
hamsters
```

Создаю и заполняю файл с вьючными животными

```
root@ubuntu-ser:~$ cat > PackAnimals
horses
camels
donkeys

root@ubuntu-ser:~$ cat PackAnimals
horses
camels
donkeys
```

Объединяю файлы

```
root@ubuntu-ser:~$ cat PackAnimals >> Pets
root@ubuntu-ser:~$ cat Pets
dogs
cats
hamsters
horses
camels
donkeys
```

Переименовываю файл

```
root@ubuntu-ser:~$ mv Pets HumansFriends
root@ubuntu-ser:~$ cat HumansFriends
dogs
cats
hamsters
horses
camels
donkeys
```

2. Создать директорию, переместить файл туда

```
root@ubuntu-ser:~$ mkdir newdir
root@ubuntu-ser:~$ mv HumansFriends newdir/
root@ubuntu-ser:~$ cat HumansFriends
cat: HumansFriends: No such file or directory
root@ubuntu-ser:~$ cat newdir/HumansFriends
dogs
cats
hamsters
horses
camels
donkeys
```

3. Подключить дополнительный репозиторий MySQL. Установить любой пакет из этого репозитория.

Скачиваю последнюю версию файла конфигурации репозитория

```
root@ubuntu-ser:~$ wget https://repo.mysql.com//mysql-apt-config_0.8.24-1_all.deb
--2023-04-17 21:31:05--  https://repo.mysql.com//mysql-apt-config_0.8.24-1_all.deb
Resolving repo.mysql.com (repo.mysql.com)... 2.17.156.231
Connecting to repo.mysql.com (repo.mysql.com)|2.17.156.231|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 18048 (18K) [application/x-debian-package]
Saving to: 'mysql-apt-config_0.8.24-1_all.deb'

mysql-apt-config_0.8.24-1_all
100%[===============================================>]  17.62K  --.-KB/s    in
0.001s

2023-04-17 21:31:05 (20.3 MB/s) - 'mysql-apt-config_0.8.24-1_all.deb' saved
[18048/18048]
```

Добавляю репозиторий

```
root@ubuntu-ser:~$ sudo dpkg -i mysql-apt-config_0.8.24-1_all.deb
Selecting previously unselected package mysql-apt-config.
(Reading database ... 110679 files and directories currently installed.)
Preparing to unpack mysql-apt-config_0.8.24-1_all.deb ...
Unpacking mysql-apt-config (0.8.24-1) ...
Setting up mysql-apt-config (0.8.24-1) ...
Warning: apt-key should not be used in scripts (called from postinst maintainerscript
of the package mysql-apt-config)
Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see
apt-key(8)).
OK
```

Обновляю базу пакетов

```
root@ubuntu-ser:~$ sudo apt update
Hit:1 http://by.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://by.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://by.archive.ubuntu.com/ubuntu jammy-backports InRelease
```

```
Hit:4 http://by.archive.ubuntu.com/ubuntu jammy-security InRelease
Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease
Get:6 http://repo.mysql.com/apt/ubuntu jammy InRelease [15.2 kB]
Get:7 http://repo.mysql.com/apt/ubuntu jammy/mysql-8.0 Sources [966 B]
Get:8 http://repo.mysql.com/apt/ubuntu jammy/mysql-apt-config amd64 Packages [565 B]
Get:9 http://repo.mysql.com/apt/ubuntu jammy/mysql-8.0 amd64 Packages [8,555 B]
Get:10 http://repo.mysql.com/apt/ubuntu jammy/mysql-tools amd64 Packages [7,905 B]
Fetched 33.2 kB in 1s (29.1 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
74 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: http://repo.mysql.com/apt/ubuntu/dists/jammy/InRelease: Key is stored in legacy
trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8)
for details.
```

Устанавливаю MySQL

```
root@ubuntu-ser:~$ sudo apt install -y mysql-server
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libmecab2 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client mysql-common
mysql-community-client mysql-community-client-core mysql-community-client-plugins
  mysql-community-server mysql-community-server-core
The following NEW packages will be installed:
  libmecab2 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client mysql-common
mysql-community-client mysql-community-client-core mysql-community-client-plugins
  mysql-community-server mysql-community-server-core mysql-server
0 upgraded, 12 newly installed, 0 to remove and 74 not upgraded.
Need to get 38.2 MB of archives.
After this operation, 273 MB of additional disk space will be used.
```

.....

Проверяю статус сервиса

```
root@ubuntu-ser:~$ systemctl status mysql
● mysql.service - MySQL Community Server
     Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset:
enabled)
     Active: active (running) since Mon 2023-04-17 21:40:33 UTC; 29min ago
       Docs: man:mysqld(8)
             http://dev.mysql.com/doc/refman/en/using-systemd.html
   Main PID: 3377 (mysqld)
     Status: "Server is operational"
      Tasks: 38 (limit: 1030)
     Memory: 37.2M
        CPU: 4.562s
     CGroup: /system.slice/mysql.service
             └─3377 /usr/sbin/mysqld

Apr 17 21:40:32 server1 systemd[1]: Starting MySQL Community Server...
Apr 17 21:40:33 server1 systemd[1]: Started MySQL Community Server.
```

Проверяю подключение из локального клиента

```
root@ubuntu-ser:~$ sudo mysql -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.32 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> exit
Bye
```

4. Установить и удалить deb-пакет с помощью dpkg.

```
root@ubuntu-ser:~$ wget https://go.skype.com/skypeforlinux-64.deb
--2023-04-17 21:53:54--  https://go.skype.com/skypeforlinux-64.deb
Resolving go.skype.com (go.skype.com)... 40.118.109.53
Connecting to go.skype.com (go.skype.com)|40.118.109.53|:443... connected.
HTTP request sent, awaiting response... 301 Moved Permanently
Location: https://get.skype.com/getskype-webwrap-deb [following]
--2023-04-17 21:53:55--  https://get.skype.com/getskype-webwrap-deb
Resolving get.skype.com (get.skype.com)... 52.174.193.75
Connecting to get.skype.com (get.skype.com)|52.174.193.75|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://repo.skype.com/latest/skypeforlinux-64.deb [following]
--2023-04-17 21:53:55--  https://repo.skype.com/latest/skypeforlinux-64.deb
Resolving repo.skype.com (repo.skype.com)... 23.197.104.155,
2a02:26f0:7100:486::1263, 2a02:26f0:7100:484::1263
Connecting to repo.skype.com (repo.skype.com)|23.197.104.155|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 126373092 (121M) [application/x-debian-package]
Saving to: 'skypeforlinux-64.deb'

skypeforlinux-64.deb
100%[================================================================================
==================>] 120.52M  11.5MB/s    in 9.5s

2023-04-17 21:54:04 (12.7 MB/s) - 'skypeforlinux-64.deb' saved [126373092/126373092]
```

Устанавливаю Skype

```
root@ubuntu-ser:~$ sudo dpkg -i skypeforlinux-64.deb
(Reading database ... 126536 files and directories currently installed.)
Preparing to unpack skypeforlinux-64.deb ...
Unpacking skypeforlinux (8.94.0.422) over (8.94.0.422) ...
Setting up skypeforlinux (8.94.0.422) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
```

Доустанавливаю необходимые пакеты

```
root@ubuntu-ser:~$ sudo apt -f install
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
```

Проверяю

```
root@ubuntu-ser:~$ apt list | grep skype

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

skypeforlinux/now 8.94.0.422 amd64 [installed,local]
```

Удаляю Skype

```
root@ubuntu-ser:~$ sudo dpkg -r skypeforlinux
(Reading database ... 126536 files and directories currently installed.)
Removing skypeforlinux (8.94.0.422) ...
dpkg: warning: while removing skypeforlinux, directory '/opt' not empty so not
removed
Processing triggers for hicolor-icon-theme (0.17-2) ...
```

5. Выложить историю команд в терминале ubuntu

```
297  cat Pets
298  cat > Pets
299  cat > PackAnimals
300  cat Pets
301  cat PackAnimals
302  cat PackAnimals >> Pets
303  cat Pets
304  mv Pets HumansFriends
305  cat HumansFriends
306  mkdir newdir
307  mv HumansFriends newdir/
308  ls newdir/
312  cat newdir/HumansFriends
317  sudo apt update
318  wget https://repo.mysql.com//mysql-apt-config_0.8.24-1_all.deb
320  sudo dpkg -i mysql-apt-config_0.8.24-1_all.deb
321  sudo apt update
322  sudo apt install -y mysql-server
324  wget https://go.skype.com/skypeforlinux-64.deb
326  sudo apt update
332  sudo dpkg -i skypeforlinux-64.deb
333  sudo apt -f install
334  apt list | grep skype
335  sudo dpkg -r skypeforlinux
336  apt list | grep skype
338  systemctl status mysql
```