лошади

1. Используя команду саt 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).
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а) Создание и объединение файлов:
karina@karina-VirtualBox:~\$ pwd
/home/karina
karina@karina-VirtualBox:~\$ cat > "Домашние животные" << EOF
> собаки
> кошки
> хомяки
> УЩА
> EOF
karina@karina-VirtualBox:~\$ cat > "Вьючные животные" << EOF
> лошади
> верблюды
> ослы
> EOF
karina@karina-VirtualBox:~\$ cat "Домашние животные" "Вьючные животные" > "Друзья человека"
karina@karina-VirtualBox:~\$ cat "Друзья человека"
собаки
кошки
хомяки
УЩА

верблюды
ОСЛЫ
karina@karina-VirtualBox:~\$ mv "Друзья человека" "Новое имя файла"
2. Создать директорию, переместить файл туда.
karina@karina-VirtualBox:~\$ mkdir Директория_питомика
karina@karina-VirtualBox:~\$ mv "Новое имя файла" Директория_питомика/
из этого репозитория.
karina@karina-VirtualBox:~\$ sudo add-apt-repository 'deb http://archive.ubuntu.com/ubuntu bionic main u
niverse'
Repository: 'deb http://archive.ubuntu.com/ubuntu bionic universe main'
Description:
Archive for codename: bionic components: universe,main
More info: http://archive.ubuntu.com/ubuntu
Adding repository.
Press [ENTER] to continue or Ctrl-c to cancel.
Adding deb entry to /etc/apt/sources.list.d/archive_uri-http_archive_ubuntu_com_ubuntu-jammy.list
Adding disabled deb-src entry to /etc/apt/sources.list.d/archive_uri-http_archive_ubuntu_com_ubuntu-jam my.list
Hit:1 http://ge.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ge.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ge.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:4 http://archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]

```
Get:6 https://download.docker.com/linux/ubuntu jammy InRelease [48,9 kB]
Hit:7 http://nginx.org/packages/ubuntu jammy InRelease
Get:8 http://ge.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [855 kB]
Get:9 http://ge.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [456 kB]
Get:10 http://ge.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [209 kB]
Get:11 http://ge.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [99,8 kB]
Get:12 http://ge.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [15,4 kB]
Get:13 http://ge.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [668 kB]
Get:14 http://ge.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [106 kB]
Get:15 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [646 kB]
Get:16 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [21,2 kB]
Get:17 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [961 kB]
Get:18 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [634 kB]
Get:19 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [207 kB]
Get:20 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [278 kB]
Get:21 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe DEP-11 48x48 Icons [190 kB]
Get:22 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe DEP-11 64x64 Icons [291 kB]
Get:23 http://ge.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [21,4 kB]
Get:24 http://ge.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [9.768 B]
Get:25 http://security.ubuntu.com/ubuntu jammy-security/main i386 Packages [278 kB]
Get:26 http://ge.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]
Get:27 http://ge.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7.972 B]
Get:28 http://ge.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [22,2 kB]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [149 kB]
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [41,5 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [11,0 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [656 kB]
```

Get:33 http://ge.archive.ubuntu.com/ubuntu jammy-backports/universe i386 Packages [12,8 kB]

Err:4 http://archive.ubuntu.com/ubuntu bionic InRelease

The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 3B4F E6ACC0B21F32

Get:34 http://ge.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [15,5 kB]

Get:35 http://ge.archive.ubuntu.com/ubuntu jammy-backports/universe DEP-11 64x64 lcons [22,2 kB]

Get:36 http://ge.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [580 B]

Get:37 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [104 kB]

Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe i386 Packages [551 kB]

Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [764 kB]

Get:40 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [137 kB]

Get:41 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [22,0 kB]

Get:42 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16,3 kB]

Reading package lists... Done

W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg k eyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.

W: GPG error: http://archive.ubuntu.com/ubuntu bionic InRelease: The following signatures couldn't be ve rified because the public key is not available: NO_PUBKEY 3B4FE6ACC0B21F32

E: The repository 'http://archive.ubuntu.com/ubuntu bionic InRelease' is not signed.

N: Updating from such a repository can't be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository creation and user configuration details.

W: http://nginx.org/packages/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.

N: Skipping acquire of configured file 'nginx/binary-i386/Packages' as repository 'http://nginx.org/package s/ubuntu jammy InRelease' doesn't support architecture 'i386'

karina@karina-VirtualBox:~\$ sudo apt update

Hit:1 http://ge.archive.ubuntu.com/ubuntu jammy InRelease

Hit:2 http://ge.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:3 http://ge.archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:4 http://nginx.org/packages/ubuntu jammy InRelease

Hit:5 https://download.docker.com/linux/ubuntu jammy InRelease

Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:7 http://archive.ubuntu.com/ubuntu bionic InRelease

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

237 packages can be upgraded. Run 'apt list --upgradable' to see them.

W: http://nginx.org/packages/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.

N: Skipping acquire of configured file 'nginx/binary-i386/Packages' as repository 'http://nginx.org/package s/ubuntu jammy InRelease' doesn't support architecture 'i386'

W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored in legacy trusted.gpg k eyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.

W: http://archive.ubuntu.com/ubuntu/dists/bionic/InRelease: Key is stored in legacy trusted.gpg keyring (/e tc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.

karina@karina-VirtualBox:~\$ sudo apt install curl

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

curl is already the newest version (7.81.0-1ubuntu1.13).

The following packages were automatically installed and are no longer required:

libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-bin

libfcgi-perl libfcgi0ldbl libhtml-template-perl libmecab2 libprotobuf-lite23 mecab-ipadic

mecab-ipadic-utf8 mecab-utils mysgl-server-8.0 mysgl-server-core-8.0

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 237 not upgraded.

karina@karina-VirtualBox:~\$

4. Установить и удалить deb-пакет с помощью dpkg. ______ karina@karina-VirtualBox:~\$ sudo apt install htop Reading package lists... Done Building dependency tree... Done Reading state information... Done The following packages were automatically installed and are no longer required: libaio1 libcgi-fast-perl libcgi-pm-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-bin libfcgi-perl libfcgi0ldbl libhtml-template-perl libmecab2 libprotobuf-lite23 mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-server-8.0 mysql-server-core-8.0 Use 'sudo apt autoremove' to remove them. Suggested packages: **Im-sensors** The following NEW packages will be installed: htop 0 upgraded, 1 newly installed, 0 to remove and 237 not upgraded. Need to get 128 kB of archives. After this operation, 342 kB of additional disk space will be used. Get:1 http://ge.archive.ubuntu.com/ubuntu jammy/main amd64 htop amd64 3.0.5-7build2 [128 kB] Fetched 128 kB in 0s (687 kB/s) Selecting previously unselected package htop. (Reading database ... 201100 files and directories currently installed.) Preparing to unpack .../htop_3.0.5-7build2_amd64.deb ... Unpacking htop (3.0.5-7build2) ... Setting up htop (3.0.5-7build2) ... Processing triggers for mailcap (3.70+nmu1ubuntu1) ... Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...

```
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
karina@karina-VirtualBox:~$ Is
           htop 3.0.5-7build2 amd64.deb mysql data Public
Desktop
                                                                   test.txt 'Вьючные животные'
                                                                                                   Игр
ушки
Documents Music
                                   newroot
                                               snap
                                                         Videos
                                                                  Директория питомика
Downloads mysite
                                   Pictures
                                              Templates Вьючные 'Домашние животные'
karina@karina-VirtualBox:~$ sudo dpkg -i htop 3.0.5-7build2 amd64.deb
(Reading database ... 201110 files and directories currently installed.)
Preparing to unpack htop 3.0.5-7build2 amd64.deb ...
Unpacking htop (3.0.5-7build2) over (3.0.5-7build2) ...
Setting up htop (3.0.5-7build2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for man-db (2.10.2-1) ...
karina@karina-VirtualBox:~$ sudo dpkg -r htop
(Reading database ... 201110 files and directories currently installed.)
Removing htop (3.0.5-7build2) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
karina@karina-VirtualBox:~$
```

5. Выложить историю команд в терминале ubuntu karina@karina-VirtualBox:~\$ history 1 sudo sh VBoxLinuxAdditions.run 2 restart 3 sudo ./VBoxLinuxAdditions.run 4 sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys ABF5BD827BD9BF62 5 echo "deb http://nginx.org/packages/ubuntu \$(lsb release -sc) nginx" | sudo tee /etc/apt/sources.list. d/nginx.list 6 sudo apt update 7 apt list --upgradable 8 sudo apt install nginx 9 sudo systemctl stop nginx 10 sudo dpkg -r nginx 11 sudo dpkg --purge nginx 12 sudo apt-get autoremove 13 sudo apt-get autoclean 14 sudo snap refresh 15 sudo snap install google-chrome 16 sudo snap find <google-chrome> 17 sudo snap find 18 sudo snap install jami 19 nano test.txt 20 crontab -e 21 pwd 22 crontab -e 23 sudo apt-get update 24 sudo apt-get install iptables

25 sudo iptables -A OUTPUT -j ACCEPT

- 26 sudo iptables -A INPUT -p tcp --dport 22 -j ACCEPT
- 27 sudo iptables -A INPUT -p tcp --dport 80 -j ACCEPT
- 28 sudo iptables -A INPUT -j DROP
- 29 sudo sh -c "iptables-save > /etc/iptables.rules"
- 30 sudo nano /etc/network/interfaces
- 31 sudo apt-get install iptables-persistent
- 32 apt-get update
- 33 sudo apt-get update
- 34 sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080
- 35 sudo iptables-save > /etc/iptables/rules.v4
- 36 sudo apt-get update
- 37 sudo nano /etc/apt/sources.list
- 38 sudo apt-get update
- 39 sudo nano /etc/apt/sources.list
- 40 sudo apt-get update
- 41 sudo nano /etc/apt/sources.list
- 42 sudo apt-get update
- 43 sudo nano /etc/apt/sources.list
- 44 sudo apt-get update
- 45 sudo nano /etc/apt/sources.list
- 46 sudo apt-get update
- 47 sudo nano /etc/apt/sources.list
- 48 sudo apt-get update
- 49 sudo nano /etc/apt/sources.list
- 50 sudo apt-get update
- 51 sudo apt-get install iptables-persistent
- 52 sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to-port 8080

- 53 sudo iptables-save > /etc/iptables/rules.v4
- 54 sudo bash -c "iptables-save > /etc/iptables/rules.v4"
- 55 sudo nano /etc/rc.local
- 56 sudo iptables -A INPUT -s 3.4.5.6 -j DROP
- 57 sudo iptables-save > /etc/iptables/rules.v4
- 58 sudo "iptables-save > /etc/iptables/rules.v4"
- 59 Is -ld /etc/iptables
- 60 sudo su
- 61 sudo apt update
- 62 sudo apt install apt-transport-https ca-certificates curl gnupg-agent software-properties-common
- 63 sudo lsof /var/lib/dpkg/lock-frontend
- 64 sudo kill <3552>
- 65 sudo kill 3552
- 66 sudo apt install apt-transport-https ca-certificates curl gnupg-agent software-properties-common
- 67 sudo lsof /var/lib/dpkg/lock-frontend
- 68 sudo kill 3552
- 69 sudo lsof /var/lib/dpkg/lock-frontend
- 70 sudo kill 3552
- 71 sudo lsof /var/lib/dpkg/lock-frontend
- 72 sudo apt install apt-transport-https ca-certificates curl gnupg-agent software-properties-common
- 73 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
- 74 sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu \$(lsb_release -cs) stable"
 - 75 sudo apt update
 - 76 sudo apt install docker-ce
 - 77 sudo systemctl status docker
 - 78 docker run -it ubuntu
- 79 sudo usermod -aG docker \$USER

80 docker run -it ubuntu 81 sudo apt-get install lxc 82 sudo lxc-create -t download -n my-container -- -d ubuntu -r focal -a amd64 83 apt install openssh-server 84 sudo lxc-start -n my-container 85 sudo nano /var/lib/lxc/my-container/config 86 sudo lxc-stop -n my-container 87 sudo lxc-start -n my-container 88 sudo lxc-info -n my-container 89 touch Dockerfile 90 nano Dockerfile 91 cd Dockerfile 92 docker build -t my-mariadb-image . 93 nano Dockerfile 94 docker build -t my-mariadb-image . 95 docker build -t my-mariadb-image --network host . 96 nano Dockerfile 97 docker build -t my-mariadb-image . 98 nano Dockerfile 99 docker build -t my-mariadb-image . 100 nano Dockerfile 101 docker build -t my-mariadb-image . 102 nano Dockerfile 103 docker build -t my-mariadb-image . 104 nano Dockerfile 105 docker build -t my-mariadb-image . 106 nano Dockerfile

107 docker build -t my-mariadb-image .

- 108 nano Dockerfile 109 docker build -t my-mariadb-image . 110 nano Dockerfile 111 docker build -t my-mariadb-image . 112 nano Dockerfile 113 env | grep -i proxy 114 ping google.com 115 nano Dockerfile 116 docker build -t my-mariadb-image . 117 nano Dockerfile 118 docker build -t my-mariadb-image . 119 docker run --network host alpine ping -c 3 google.com 120 docker run 121 cd Documents 122 nano Dockerfile
 - 123 docker build -t my-mariadb-image .
 - 124 nano Dockerfile
 - 125 docker build -t my-mariadb-image .
 - 126 cd Documents
 - 127 nano Dockerfile
 - 128 docker build -t my-mariadb-image .
 - 129 ping archive.ubuntu.com
 - 130 ping archive.mariadb.org
 - 131 nano Dockerfile
 - 132 docker build -t my-mariadb-image .
 - 133 sudo add-apt-repository 'deb http://archive.ubuntu.com/ubuntu bionic main universe'
 - 134 sudo apt update

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135 sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 3B4FE6ACC0B21F32
 136 sudo apt update
 137 sudo apt install curl
 138 sudo dpkg -i example-package.deb
 139 sudo dpkg -i /home/karina/Загрузки/example-package.deb
 140 ls /home/karina/Загрузки/
 141 pwd
 142 mv /home/karina/Загрузки/example-package.deb .
 143 mv /home/karina/example-package.deb .
 144 mv /home/karina/example-package.deb
 145 mv '/home/karina/example-package.deb'
 146 sudo dpkg -i /home/karina/example-package.deb
 147 Is
 148 sudo dpkg -i /home/karina/Downloads/example-package.deb
 149 sudo apt update
 150 sudo apt download htop
 151 wget http://archive.ubuntu.com/ubuntu/pool/universe/c/chromium-browser/chromium-browser 92.0.
4515.131-0ubuntu1 amd64.deb
 152 dpkg -l
 153 sudo apt install htop
 154 ls
 155 sudo dpkg -i htop 3.0.5-7build2 amd64.deb
 156 sudo dpkg -r htop
 157 history
karina@karina-VirtualBox:~$
```

6. Нарисовать диаграмму, в которой есть класс родительский класс, домашние животные и вьючные животные, в составы которых в случае домашних животных войдут классы: собаки, кошки, хомяки, а в класс вьючные животные войдут: Лошади, верблюды и ослы).

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task_6.jpg		
