Exercise - Users and Groups

Create a user named dev_user

Set password of dev_user as clarusway

Create a group named dev_team

Add dev_user user to the group dev_team

Display groups of dev_user user

Remove dev_user from dev_team group

Display groups of dev_user user

Delete dev_team group

Delete dev_user user with home directory

sudo sudo
useradd dev-user
etc klasoru icinde kullanicilari gorebiliriz.
cat passwd
passwd dev-user
cat group gruplari grebiliriz.
groupadd dev-team
gpasswd -a dev-user dev-team
groups dev-user
gpasswd -d dev-user dev-team
groups dev-user
groupdel dev-team
userdel -r dev-user # -r home klasorunude siler.

Exercise - Package managers

Update all installed packages
Check if mariadb is already installed
Find available mariadb packages
Install mariadb. (Skip confirmations during installation)
List installed mariadb package
Uninstall mariadb with all unused dependencies
List installed mariadb package

sudo yum update -y sudo yum list installed mariadb sudo yum list mariadb sudo yum list installed mariadb sudo yum autoremove mariadb -y sudo yum list installed mariadb

Exercise - Control characters

- 1. a. Search for "clarusway.txt" in the current directory
 - b. If it exists display its content
 - c. If it does not exist print message "FILE DOES NOT EXIST"
- 2. Create a file named "clarusway.txt" that contains "Congratulations"
- Repeat Step 1

```
sudo su
Is clarus*
Is clarusway.txt && more clarusway.txt
cat clarusway.txt
Is clarusway.txt && more clarusway.txt || echo "FILE DOES NOT EXIST"
vim clarusway.txt
i
Congratulations
ESC
:wq
Is clarus*
```

Exercise Bash 1

- 1. Write a script that;
 - a. Asks user to enter two numbers to variables **num1** and **num2**.
 - b. Calculates the total of 2 numbers.
 - c. Prints the total number and applied formula.
- 2. Make the script executable
- 3. Add home directory to the PATH
- 4. Execute the script

```
#!/bin/bash
read -p "Enter a number" num1 num2
let total=$num1 + $num2
print($total)
chmod +x bash1.sh
export PATH=$PATH:/~ # home klasorunu bin altinda olusturdugummuzdan ./ gerek yok
bash1.sh
```

Exercise Bash 2

Modify previous script to accept numbers as arguments.

```
#!/bin/bash
Echo "SAyilarin Toplami: $(($1 + $2))
chmod +x bash2.sh
./bash2.sh
bash2.sh 11 22
33
```

Exercise - Filters

- Create a file named passwords.csv with the following content User,Password finance,xJ2a_Pl1 tech,Qc8r7!2P hr,l30o_2mM operation,12345678 marketing,qwertyui sales,abcdefgh
- 2. Write a script that accepts user name as argument and prints the password of that user.

```
vim passwords.csv
User,Password
finance,xJ2a_Pl1
tech,Qc8r7!2P
hr,l30o_2mM
operation,12345678
marketing,qwertyui
sales,abcdefgh

#!/bin/bash

passwd=$(cat password.csv | grep $1 | cut -d',' -f2)
echo "password of $1 : $passwd"
chmod +x bash3.sh
./bash3.sh hr
```

Exercise Bash 3

- 1. Write a script that accepts username as argument
 - a. if argument is empty use current user's name
 - b. find description of the user and print it
 - c. if description is empty print "No description"
- Create 2 different users with separate descriptions and one without any desciription.
- 3. Test your script with newly created users.

```
#!/bin/bash
username=$(whoami)
if [ $1 ]
then
     username=$1
fi
description=$(cat /etc/passwd | grep $username | cut -d":" -f5)
if [ "$description" != "" ]
then
echo "Description of $username is $description"
echo "No description for user $username"
sudo useradd hr -c "Human Resources Section"
sudo useradd tech -c "Technical Stuff"
sudo useradd aws
******
#!/bin/bash
username=$(whoami)
if [ $1 ]
then
     username=$1
description=$(cat /etc/passwd | grep $username | cut -d":" -f5)
if [ "$description" != "" ]
then
echo "Description of $username is $description"
echo "No description for user $username"
get password $username #bu bizim önceki alıştırmada oluşturduğumuz script.
burada doğrudan çağırıyoruz.
```

- 1. Write a script that accepts a path as an argument
 - a. If the argument is not empty go to that directory, otherwise stay in the current directory
 - Add a number from 1 before all the files that has csv extension.

Exercise Bash 5

Write a script that consists of a function that accepts a directory name as an argument and displays the name of the directory and number of files in the directory.

```
Name this function "file_count" and call it in your script for;
/etc
~
/usr/bin

function file_count()
{
local Directory=$1
COUNT_FILE=$(ls $Directory|wc -l)
echo "$Directory - $COUNT_FILE"
}
file_count /etc
file_count /etc
file_count /usr/bin
```