Домашнее задание 11. Функция в скрипте.

1. Создаю новый скрипт копированием старого и даю права на исполнение.

```
alex@alex-VirtualBox:~/projects/TeachMeSkills$ cp create_user.sh create_user_wit
h_function.sh
alex@alex-VirtualBox:~/projects/TeachMeSkills$ chmod +x create_user_with_functio
n.sh
```

2. Текст скрипта:

```
  GNU nano 6.2                    create_user_with_function.sh
#!/bin/bash

Help()
{
   echo "---------Welcome to help section------------"
   echo "This script is used for user creation"
   echo "{user_name} - use this parameter to create new user name"
   echo "{home_folder} - use this parameter to create new home folder for user.>
   echo "{ssh_access} - write ""yes"" if you want to edd ssh access to new user"
   echo "{enable} - write ""yes"" if you want to enable new user"
   echo "--------------Extra options-----------------"
   echo "{h} - use ""-h"" to open help section"
   echo "{i} - use ""-i"" to display parameters"
   echo "{v} - use ""-v"" to display example"
}

Get_param()
{
   echo "---------Welcome to parameter section----------"
   echo "{user_name} - first parameter. Write user name."
   echo "{home_folder} - second parameter. Write /home/{user_name}"
   echo "{ssh_access} - third parameter. Write ""yes"" if user needs ssh access"
   echo "{enable} - fourth parameter. Write ""yes"" if you need enable user"
}

Get_example()
{
   echo "---------Welcome to example section----------"
   echo "To create new user look at this example: ./create_user_with_function {>
}
```

```bash
#getopts function usage code snippet
while getopts ":hiv" option; do
   case $option in
      h) # display Help
         Help
         exit;;
      i) # display Parameters
         Get_param
         exit;;
      v) # display Example
         Get_example
         exit;;
   esac
done

#argument checking
if [ $# -ne 4 ]; then
    echo "Invalid number of arguments!"
    exit 1
fi

#Assignment of arguments
user_name=$1
home_folder=$2
ssh_access=$3
enable=$4

#creating user and user folder
echo "Creating user: $user_name"
sudo useradd -m -d $home_folder $user_name
```

```bash
#Creating password
sudo passwd $user_name

#Setting up ssh access
if [ $ssh_access == "yes" ]; then
    echo "Enabling user ssh access: $user_name"
    sudo usermod -aG ssh $user_name
fi

#Enable or disable an account

if [ $enable == "yes" ]; then
    echo "Enable account: $user_name"
    sudo usermod -e "" $user_name
else
    echo "Disable account: $user_name"
    sudo usermod -e 1 $user_name
fi

echo "User $user_name has been created!"
```

3. Выполнение скрипта:

```
alex@alex-VirtualBox:~/projects/TeachMeSkills$ ./create_user_with_function.sh -h
---------Welcome to help section------------
This script is used for user creation
{user_name} - use this parameter to create new user name
{home_folder} - use this parameter to create new home folder for user. Please, u
se construction /home/{user_name}
{ssh_access} - write yes if you want to edd ssh access to new user
{enable} - write yes if you want to enable new user
-------------Extra options----------------
{h} - use -h to open help section
{i} - use -i to display parameters
{v} - use -v to display example
alex@alex-VirtualBox:~/projects/TeachMeSkills$ ./create_user_with_function.sh -i
---------Welcome to parameter section----------
{user_name} - first parameter. Write user name.
{home_folder} - second parameter. Write /home/{user_name}
{ssh_access} - third parameter. Write yes if user needs ssh access
{enable} - fourth parameter. Write yes if you need enable user
alex@alex-VirtualBox:~/projects/TeachMeSkills$ ./create_user_with_function.sh -v
---------Welcome to example section----------
To create new user look at this example: ./create_user_with_function {user_name}
 {home_folder} {ssh_access} {enable}
alex@alex-VirtualBox:~/projects/TeachMeSkills$
```