

Домашнее задание к Семинару 8

Задание

- Написать скрипт очистки директорий.

На вход принимает путь к директории.

Если директория существует, то удаляет в ней все файлы с расширениями .bak, .tmp, .backup.

Если директории нет, то выводит ошибку.

nano cleardir.sh

```
#!/bin/bash
```

```
# Check parameter of script
```

```
if [ -z $1 ]
```

```
then
```

```
    echo "Usage of this script:"
```

```
    echo "./cleardir path_to_directory"
```

```
    exit 1
```

```
fi
```

```
# Check if directory exist
```

```
if [ -d $1 ]
```

```
then
```

```
    path_to_dir=$1
```

```
else
```

```
    echo "Directory $1 is not exist or given wrong path"
```

```
    exit 1
```

```
fi
```

```
# Prepare paths to delete files
```

```
bak_files_path="$path_to_dir/*.bak"
```

```
tmp_files_path="$path_to_dir/*.tmp"
```

```
backup_files_path="$path_to_dir/*.backup"
```

```
# Delete files with extentions .bak, .tmp, .backup
```

```
bak_count=$( ls -la $path_to_dir | grep \.bak | wc -l )
```

```
if [ $bak_count -ge 1 ]
```

```
then
```

```
$( rm $bak_files_path )
```

```
echo "Deleted $bak_count files with extention .bak"
```

```
fi
```

```
tmp_count=$( ls -la $path_to_dir | grep \.tmp | wc -l )
```

```
if [ $tmp_count -ge 1 ]
```

```
then
```

```
$( rm $tmp_files_path )
```

```
echo "Deleted $tmp_count files with extention .tmp"
```

```
fi
```

```
backup_count=$( ls -la $path_to_dir | grep \.backup | wc -l )
```

```
if [ $backup_count -ge 1 ]
```

```
then
```

```
$( rm $backup_files_path )
```

```
echo "Deleted $backup_count files with extention .backup"
```

```
fi
```

```
chmod +x cleardir.sh
```

- Создать скрипт ownersort.sh, который в заданной папке копирует файлы в директории, названные по имени владельца каждого файла. Учтите, что файл должен принадлежать соответствующему владельцу.

nano ownersort.sh

```
#!/bin/bash
```

```
# Check parametr of script
```

```
if [ -z $1 ]
```

```
then
```

```
    echo "Usage of this script:"
```

```
    echo "./ownersort.sh path_to_directory"
```

```
    exit 1
```

```
fi
```

```
# Check if directory exist
```

```
if [ -d $1 ]
```

```
then
```

```
    path_to_dir=$1
```

```
else
```

```
    echo "Directory $1 is not exist or given wrong path"
```

```
    exit 1
```

```
fi
```

```
# Get current directory path
```

```
pwd_dir=$( pwd )
```

```
# Change on given directory
```

```
cd $path_to_dir
```

```
# loop of handling of files
```

```
for file in *
```

```
do
```

```
    if [ -e $file ]
```

```
    then
```

```
        # Getting name of user of file
```

```
        owner_name=$( ls -l $file | grep ^- | awk '{print $3}' )
```

```
if [ -d $owner_name ]
then
    cp $file $owner_name/
else
    mkdir $owner_name
    cp $file $owner_name/
fi
```

```
# Set owner of file on original
```

```
chown $owner_name:$ownername $owner_name/$file
```

```
fi
```

```
done
```

```
# Change directory on original
```

```
cd $pwd_dir
```

```
chmod +x ownersort.sh
```