Министерство науки и вышего образования Российской Федерации

Федеральное государственное бюджетное образовательное учреждение высшего образования

« Российский химико-технологический университет имени Д.И. Менделеева »

ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ №4

Выполнил студент группы КС-36: Золотухин А.А.

Ссылка на репозиторий: https://github.com/

CorgiPuppy/

administration-of-information-systems-labs

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Дата сдачи: 12.03.25

Москва

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Описание и выполнение задачи

Задание 1

Вывести календарь на первую неделю марта. Используйте cal (Рис. 1).

```
#!/bin/bash

declare -i YEAR=2025
declare -i MONTH=3
declare -i FIRST_LINE=1
declare -i LAST_LINE=4

set -v
cal -m $MONTH $YEAR | awk -v first_line="$FIRST_LINE" -v last_line="$LAST_LINE"
'NR>=first_line && NR<=last_line'

scrot -c -d 2 'task1.png' -e 'mv $f ./assets/';</pre>
```

Рис. 1: Задание 1.

Задание 2

Найти файлы в домашней папке, изменённые за последний час (Рис. 2).

```
#!/bin bash

declare OUTPUT_DIR_NAME=outputs/task2
declare OUTPUT_FILE_NAME=output.csv
```

```
declare OUTPUT_FILE=$OUTPUT_DIR_NAME/$OUTPUT_FILE_NAME

set -v
$OUTPUT_FILE | find $HOME -type f -mmin -60 -ls | awk '{printf "%s,%s,%s,%s\n", $8, $9, $10, $11}' > $OUTPUT_FILE

scrot -c -d 2 'task2.png' -e 'mv $f ./assets/';
```

Рис. 2: Задание 2.

Mar	12	02:31	/home/corgi/.vim/.netrwhist
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Mar	12	03:01	/home/corgi/.cache/chromium/Default/Code\
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/bddf87b029f5bac5_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/468ab93785cb689c_0
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/7e77bfac2e94f963_0
Mar	12	02:22	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/09e76ab5a70f7f34_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/2fbc36bc609570c0_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/322008bec48df9e2_0
Mar	12	03:03	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/449c89fc8949764f_0
Mar	12	03:00	$/home/corgi/.cache/chromium/Default/Cache/Cache_Data/a539415201db28c4_0$
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/9bf634f44d140c1a_0
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/a807c6e52353bca1_0
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Mar	12	02:22	$/home/corgi/.cache/chromium/Default/Cache/Cache_Data/fd51b30a8af31883_0$
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Mar	12	02:48	$/home/corgi/.cache/chromium/Default/Cache/Cache_Data/cd6208f660d85398_0$
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/c16bc4873be67c3e_0
Mar	12	02:22	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/e9a352c69e79344b_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/61400ff860f87b77_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/c30318ca8817df8c_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/83ad82e7e3951907_0
Mar	12	02:22	$/home/corgi/.cache/chromium/Default/Cache/Cache_Data/f58f87349b720995_0$
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Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/48f2ed4855943f39_0
Mar	12	02:23	/home/corgi/.cache/chromium/Default/Cache/Cache_Data/be07e7b828d7ab69_0
Mar	12	02:22	$/home/corgi/.cache/chromium/Default/Cache/Cache_Data/6404156ba71428bb_0$
Mar	12	03:08	/home/corgi/.cache/vim/swap/%home%corgi%git-repositories%administration-of-
			information-systems-labs%lab4%src%task2%main.sh.swp
Mar	12	02:10	/home/corgi/.local/share/zathura/bookmarks.sqlite
Mar	12	03:07	/home/corgi/.viminfo
Mar	12	02:31	/home/corgi/.lesshst
Mar	12	03:03	$/home/corgi/.config/chromium/Safe \backslash$
Mar	12	03:03	$/home/corgi/.config/chromium/Safe \\ \\$
Mar	12	03:03	$/home/corgi/.config/chromium/Safe \backslash$
Mar	12	03:03	$/home/corgi/.config/chromium/Safe \backslash$
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Mar	12	03:03	/home/corgi/.config/chromium/Safe\

М	10	02.00	/1 / : / C - / -1 : / C1 : / - D C1 - / : - 1 -
Mar	12	03:00	/home/corgi/.config/chromium/GraphiteDawnCache/index
Mar	12	03:07	/home/corgi/.config/chromium/GraphiteDawnCache/data_1
Mar	12	03:07	/home/corgi/.config/chromium/Crash\
Mar	12	03:02	/home/corgi/.config/chromium/segmentation_platform/ukm_db-wal
Mar	12	03:00	/home/corgi/.config/chromium/first_party_sets.db
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/manifest.fingerprint
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/manifest.json
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/LICENSE
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/_metadata/ verified_contents.json
Mar	12	03:01	/home/corgi/.config/chromium/CertificateRevocation/9608/crl-set
Mar	12	03:01	/home/corgi/.config/chromium/component_crx_cache/ jflookgnkcckhobaglndicnbbgbonegd_1.63868a769fa0a0d9b29403d397874e07c21258dc17652
Mar	12	03:01	/home/corgi/.config/chromium/component_crx_cache/ hfnkpimlhhgieaddgfemjhofmfblmnib_1.f281499b97567554bfb5d8c6956d475cbb47260d8087
Mar	12	03:00	/home/corgi/.config/chromium/Last\
Mar	12	03:00	/home/corgi/.config/chromium/Variations
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/manifest.fingerprint
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/safety_tips.pb
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/manifest.json
Mar	12	03:01	/home/corgi/.config/chromium/SafetyTips/3065/_metadata/verified_contents.json
Mar	12	03:00	/home/corgi/.config/chromium/first_party_sets.db-journal
Mar	12	03:07	/home/corgi/.config/chromium/DeferredBrowserMetrics/
			BrowserMetrics-67D0D05B-5154.pma
Mar	12	03:00	
			cdm
Mar	12	03:00	/home/corgi/.config/chromium/Default/Web\
Mar	12	02:24	/home/corgi/.config/chromium/Default/Favicons-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/Session\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Session\
Mar	12	03:00	/home/corgi/.config/chromium/Default/AutofillStrikeDatabase/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/History-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/SCT\
Mar	12	03:04	/home/corgi/.config/chromium/Default/passkey_enclave_state
Mar	12	03:00	/home/corgi/.config/chromium/Default/Download\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Service\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Service\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Web\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Visited\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Shortcuts
Mar	12	03:00	/home/corgi/.config/chromium/Default/commerce_subscription_db/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/BrowsingTopicsState
wiai	14	05.00	/ nome/corgi, comig/ciromium/ Defaut/ Drowsing ropicsotate

Mar	12	03:00	/home/corgi/.config/chromium/Default/optimization_guide_hint_cache_store/
1/1001		00.00	LOG
Mar	12	03:03	/home/corgi/.config/chromium/Default/Reporting\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Cookies-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/TransportSecurity
Mar	12	03:00	/home/corgi/.config/chromium/Default/PersistentOriginTrials/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/GPUCache/data_0
Mar	12	03:00	/home/corgi/.config/chromium/Default/GPUCache/index
Mar	12	03:07	/home/corgi/.config/chromium/Default/GPUCache/data_1
Mar	12	03:02	/home/corgi/.config/chromium/Default/DIPS-shm
Mar	12	02:24	/home/corgi/.config/chromium/Default/Local\
Mar	12	02:24	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Local\
Mar	12	03:08	/home/corgi/.config/chromium/Default/Sessions/Session_13386211240577860
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Mar	12	03:00	/home/corgi/.config/chromium/Default/Sessions/Session_13386208985694219
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Mar	12	03:00	/home/corgi/.config/chromium/Default/discounts_db/LOG
Mar	12	03:07	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:01	/home/corgi/.config/chromium/Default/Network\
Mar	12	03:03	/home/corgi/.config/chromium/Default/Reporting\
Mar	12	02:23	/home/corgi/.config/chromium/Default/WebStorage/4/CacheStorage/index.txt
Mar	12	02:23	/home/corgi/.config/chromium/Default/WebStorage/4/IndexedDB/
			indexeddb.leveldb/LOG
Mar	12	02:33	/home/corgi/.config/chromium/Default/WebStorage/4/IndexedDB/
			indexeddb.leveldb/000004.log
Mar	12	03:01	/home/corgi/.config/chromium/Default/WebStorage/QuotaManager
Mar	12	03:01	/home/corgi/.config/chromium/Default/WebStorage/QuotaManager-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/File\
Mar	12	03:03	/home/corgi/.config/chromium/Default/DIPS-wal
Mar	12	02:24	/home/corgi/.config/chromium/Default/Favicons
Mar	12	02:23	/home/corgi/.config/chromium/Default/Shared\
Mar	12	02:23	/home/corgi/.config/chromium/Default/Shared\
Mar	12	03:00	/home/corgi/.config/chromium/Default/DawnWebGPUCache/index
Mar	12	03:07	/home/corgi/.config/chromium/Default/DawnWebGPUCache/data_1
Mar	12	03:08	/home/corgi/.config/chromium/Default/Preferences
Mar	12	03:00	/home/corgi/.config/chromium/Default/parcel_tracking_db/LOG

Mar	12	03:00	/home/corgi/.config/chromium/Default/Sync\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Extension\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Segmentation\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Segmentation\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Segmentation\
Mar	12	03:00	/home/corgi/.config/chromium/Default/DIPS
Mar	12	03:00	/home/corgi/.config/chromium/Default/chrome_cart_db/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/trusted_vault.pb
Mar	12	03:00	/home/corgi/.config/chromium/Default/ClientCertificates/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/Cookies
Mar	12	03:00	/home/corgi/.config/chromium/Default/Shortcuts-journal
Mar	12	03:00	/home/corgi/.config/chromium/Default/GCM\
Mar	12	03:08	/home/corgi/.config/chromium/Default/History
Mar	12	03:00	/home/corgi/.config/chromium/Default/Site\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Site\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Feature\
Mar	12	03:00	/home/corgi/.config/chromium/Default/Feature\
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/metadata/000003.log
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/metadata/LOG
Mar	12	03:08	/home/corgi/.config/chromium/Default/shared_proto_db/000003.log
Mar	12	03:00	/home/corgi/.config/chromium/Default/shared_proto_db/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/DawnGraphiteCache/index
Mar	12	03:07	/home/corgi/.config/chromium/Default/DawnGraphiteCache/data_1
Mar	12	03:00	/home/corgi/.config/chromium/Default/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/BudgetDatabase/LOG
Mar	12	03:00	/home/corgi/.config/chromium/Default/SharedStorage-wal
Mar	12	03:00	/home/corgi/.config/chromium/GrShaderCache/index
Mar	12	03:07	/home/corgi/.config/chromium/GrShaderCache/data_1
Mar	12	03:08	/home/corgi/.config/chromium/Local\
Mar	12	03:00	/home/corgi/.config/chromium/ShaderCache/index
Mar	12	03:07	/home/corgi/.config/chromium/ShaderCache/data_1
Mar	12	02:59	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/plots/
			pictures/task3.png
Mar	12	02:59	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/plots/
			gnuplot-files/task3.p
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/
	10	00.00	assets/task2.png
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/
Man	10	02.00	assets/task3.png /borne/gargi/git repositories/administration of information gyatama labs/lab4/
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/ outputs/task3/source_end.dat
			outputs/ tasks/ source_chd.dat

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Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source_whole.dat
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source_begin.data
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source_whole.data
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source_end.data
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task3/source_begin.dat
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/outputs/task2/output.csv
Mar	12	02:42	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/report/report.typ
Mar	12	02:51	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/ Makefile
Mar	12	03:07	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/src/ $task3/main.sh$
Mar	12	03:08	/home/corgi/git-repositories/administration-of-information-systems-labs/lab4/src/ $task2/main.sh$

Задание 3

Найти слово source внутри всех файлов в папке /usr/src/ (Рис. 3, Рис. 4).

```
#!/bin/bash
declare TARGET_DIR=/usr/src/
declare OUTPUT DIR NAME=outputs/task3
declare OUTPUT_FILE_NAME_1=source_begin.dat
declare OUTPUT_FILE_NAME_2=source_whole.dat
declare OUTPUT_FILE_NAME_3=source_end.dat
declare OUTPUT_FILE_1=$OUTPUT_DIR_NAME/$OUTPUT_FILE_NAME_1
declare OUTPUT_FILE_2=$OUTPUT_DIR_NAME/$OUTPUT_FILE_NAME_2
declare OUTPUT_FILE_3=$OUTPUT_DIR_NAME/$OUTPUT_FILE_NAME_3
declare TEMP_FILE=file.txt
set -v
grep -R -a -E ^source $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c,
counts[c]}' > $TEMP_FILE
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_1
rm $TEMP FILE
grep -R -a -E source $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c,
counts[c]}' > $TEMP FILE
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_2
rm $TEMP FILE
grep -R -a -E source$ $TARGET_DIR | awk '{counts[$1]++} END{for (c in counts) print c,
counts[c]}' > $TEMP_FILE
```

```
cat $TEMP_FILE | awk '{sum+=$2} END{print sum}' > $OUTPUT_FILE_3
rm $TEMP_FILE
scrot -c -d 2 'task3.png' -e 'mv $f ./assets/';
```

Рис. 3: Задание 3.

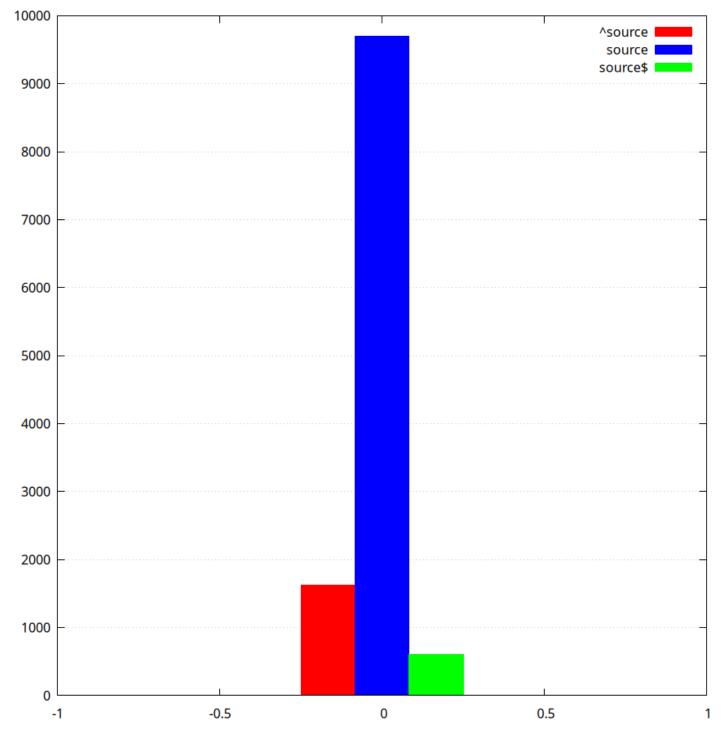


Рис. 4: Задание 3.

Задание 4

Сделать мягкую ссылку на файл /tmp/.X0-lock в домашней папке. Прочитайте содержимое файла через ссылку. Удалите мягкую ссылку (Рис. 5).

```
#!/bin/bash

declare FOLDER_NAME=/tmp
declare FILE_NAME=.X0-lock
declare FILE=$FOLDER_NAME/$FILE_NAME
declare TARGET_FOLDER_NAME=$HOME
declare TARGET_FILE=$TARGET_FOLDER_NAME/$FILE_NAME
```

```
set -x
ln -s $FILE $TARGET_FILE
cat $TARGET_FILE
rm $TARGET_FILE
scrot -c -d 2 'task4.png' -e 'mv $f ./assets/';
```

Рис. 5: Задание 4.

Задание 5

Одной командой найти все файлы в /usr/lib с именем из 12 букв, и вывести их содержимое в единый файл $\sim/superdebug$ (Рис. 6).

```
#!/bin/bash

declare FOLDER_NAME=/usr/lib
declare TARGET_FOLDER_NAME=outputs/task5
declare TARGET_FILE_NAME=superdebug
declare TARGET_FILE=$TARGET_FOLDER_NAME/$TARGET_FILE_NAME

set -v
find $FOLDER_NAME -type f -name '?????????' -exec cat {} + > $TARGET_FILE
wc -l $TARGET_FILE

scrot -c -d 2 'task5.png' -e 'mv $f ./assets/';
```

(Рис. 6)

Рис. 6: Задание 5.