

Доценту кафедры ИКД

Громову В.В.

Лабораторная работа №4

Я, Малков Тихон Александрович, в ходе лабораторной работы №4 осуществлял транслитерирование текстовых данных.

Листинг

```
foxgen@DESKTOP-J4H5835:~$ sudo apt-get install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-esse
  fakeroot fontconfig-config fonts-dejavu-core g++ g++-10 gcc g
  gpg-wks-client gpg-wks-server gpgconf gpgsm javascript-common
  libalgorithms-mpqc-ncnl libasan6 libatomic1 libatomic8 libb
foxgen@DESKTOP-J4H5835:~$ pip3 install transliterate
Collecting transliterate
  Downloading transliterate-1.10.2-py2.py3-none-any.whl (45 kB)
    | 45 kB 1.0 MB/s
Collecting six>=1.1.0
  Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, transliterate
Successfully installed six-1.16.0 transliterate-1.10.2
```

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

```
str="Малков Тихон ИСТ232м"
```

```
# create individual text files in different encodings
for encoding in CP866 WINDOWS-1251 KOI8-R UTF-8
do
```

```
    iconv -f UTF-8 -t $encoding > $encoding.txt <<EOF
$(for i in {1..10000}; do echo "$str"; done)
EOF
```

```
# transliterate the file content using Python and the transliterate module
python3 -c "from transliterate import translit; import codecs;
content=codecs.open('$encoding.txt', 'r', '$encoding').read(); print(translit(content, 'ru',
reversed=True).upper())" > transliterated_$encoding.txt
done
```

```
# create a combined file
cat transliterated_*.txt > combined.txt
```

mc [roxygen@DESKTOP-747J63J:~

```

Left      File      Command      Options      Right
-< ~ -> .[^]>
.n          Name          Size      Modify time
/..         UP--DIR May 23 20:37
/.cache     4096 May 23 20:53
/.config    4096 May 23 20:53
/.local     4096 May 23 20:51
.bash_logout 220 May 23 20:37
.bashrc     3526 May 23 20:37
.profile    807 May 23 20:37
CP866.txt   210000 May 23 20:53
KOI8-R.txt  210000 May 23 20:53
UTF-8.txt   360000 May 23 20:53
WINDOWS-1251.txt 210000 May 23 20:53
combined.txt 840004 May 23 20:53
lab4.sh     633 May 23 20:53
transliterated_CP866.txt 210001 May 23 20:53
transliterated_KOI8-R.txt 210001 May 23 20:53
transliterated_UTF-8.txt 210001 May 23 20:53
transliterated_WINDOWS-1251.txt 210001 May 23 20:53

```

```
/home/foxgen/transliterated_WINDOWS-1251.txt
```

[illegible]