<u>⊮4</u> -02-23 1 1. 2. 3. 4. 2 NASM. 3 [mdyanushkevich@fedora ~]\$ mkdir -p ~/work/a NASM( .1). [mdyanushkevich@fedora ~] \$ cd ~/work/arch-po 1. mkdir[mdyanushkevich@fedora lab04]\$ touch hello.asm hello.asm( .2). [mdyanushkevich@fedora lab04]\$ gedit hello.asm 2.

gedit.

touch

```
SECTION .data
                                  hello:
                                                   DB 'Hello world!' ,10
                                  helloLen:
                                                   EQU $-hello
                          SECTION .text
                                  GLOBAL _start
                          _start:
                                  mov eax,4
                                  mov ebx,1
                                  mov ecx, hello
                                  mov edx,helloLen
                                  int 80h
                                  mov eax,1
                                  mov ebx,0
                                   int 80h
3.
                     (.3).
             gedit
                  ( .4) [mdyanushkevich@fedora lab04]$ nasm -f
4.
  hello.o.
5.
                             [mdyanushkevich@fedora lab04]$ ls
                            hello.asm hello.o list.lst obj.o
                             [mdyanushkevich@fedora lab04]$
                       (.6).
6.
           ls
                   [mdyanushkevich@fedora lab04]$ ld -m elf_i386 hello.o -o hello
                   [mdyanushkevich@fedora lab04]$ ls
                   hello hello.asm hello.o list.lst obj.o
              ( .7). [mdyanushkevich@fedora lab04]$
7.
                                                        ls
```

```
[mdyanushkevich@fedora lab04]$ ld -m elf_i386 obj.o -o main
[mdyanushkevich@fedora lab04]$ ld --help
Использование ld [параметры] файл...
lapametpus:
-а КЛЮЧЕВОЕ СЛОВО
Управление общей библиотекой для совместимости с HP/UX

8. ( .8). -A APXИТЕКТУРА, --architecture APXИТЕКТУРА

[mdyanushkevich@fedora lab04]$ ./hello
Hello world!

9. [mdyanushkevich@fedora lab04]$
```

4

```
1. lab04 cp hello.asm lab4.asm( .10).

[mdyanushkevich@fedora lab04]$ cp hello.asm lab4.asm
[mdyanushkevich@fedora lab04]$ ls

hello hello.asm hello.o lab4.asm list.lst main obj.o
[mdyanushkevich@fedora lab04]$ gedit lab4.asm

cp lab4.asm, gedit.
```

```
SECTION .data
                                                               hello:
                                                                                       DB 'Янушкевич Михаил!' ,1
                                                                                       EQU $-hello
                                                               helloLen:
                                                   SECTION .text
                                                               GLOBAL _start
                                                   _start:
                                                               mov eax,4
                                                               mov ebx,1
                                                               mov ecx, hello
                                                               mov edx,helloLen
                                                               int 80h
                                                               mov eax,1
                                                               mov ebx,0
                                                               int 80h
2.
                                        ( .11).
        lab4.asm
                      "Hello world!"
3.
                                                                                 (.12).
   [mdyanushkevich@fedora lab04]$ nasm -f elf lab4.asm
   [mdyanushkevich@fedora lab04]$ nasm -o obj.o -f elf -g -l list.lst lab4.asm
   [mdyanushkevich@fedora lab04]$ ld -m elf_i386 lab4.o -o lab4
[mdyanushkevich@fedora lab04]$ ld -m elf_i386 obj.o -o main
    [mdyanushkevich@fedora lab04]$ ./lab4
   Янушкевич Михаил!
                                                                  mdyanushkevich@fedora lab04]$ cp lab4.asm ~/work/study/2023-2024/"Архит
                                                       [mdyanushkevich@fedora lab04]$ cd ~/work/study/2023-2024/"Архитектура к
[mdyanushkevich@fedora lab04]$ ls
( .13). hello.asm lab4.asm presentation report
4.
                hello.asm lab4.asm
                                hello.asm lab4.asm
                 ^{\mathrm{cp}}
                                   [mdyanushkevich@fedora arch-pc]$ git push
                Github( .14).
5.
                                                  Github.
                 git push
```

Github( .15).	Name	Last commit message	Last commi
	<b></b>		
	presentation	feat(main): make course structure	last m
	report	feat(main): make course structure	last m
	hello.asm	feat(main): make course structure	last
	lab4.asm	feat(main): make course structure	last
( )			

5

6.

NASM,

Linux.