_ J₽6

: : -02-23

1. 2. 3.

2

3 1. №6, lab6-1.asm.(.1).

NASM.

№6, lab6-1.asm.(.1).

[mdyanushkevich@fedora ~]\$ mkdir ~/work/arch-pc/lab06

[mdyanushkevich@fedora ~]\$ cd ~/work/arch-pc/lab06

[mdyanushkevich@fedora lab06]\$ touch lab6-1.asm

mkdir lab06, , touch

 $lab 6\hbox{-}1.asm.$

4.

```
%include 'in_out.asm'
                                       SECTION .bss
                                       buf1: RESB 80
                                                  SECTION .text
                                                  GLOBAL _start
                                                    start:
                                                  mov eax, '6'
                                                  mov ebx, '4'
                                                  add eax,ebx
                                                  mov [buf1],eax
                                                  mov eax, buf1
                                                  call sprintLF
                                                  call quit
 2.
      lab6-1.asm
                               6.1.( .2).
           lab6-1.asm
                         gedit,
                                                6.1.
                            [mdyanushkevich@fedora lab06]$ nasm -f elf lab6-1.asm
                            [mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o lab6-1 lab6-1.
                            [mdyanushkevich@fedora lab06]$ ./lab6-1
 3.
                      .( .3).
                            "j".
                                        mov eax, 6
                                        mov ebx, 4
                                .(.4,5).
[mdyanushkevich@fedora lab06]$ nasm -f elf lab6-1.asm
[mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o lab6-1 lab6-1.o
[mdyanushkevich@fedora lab06]$ ./lab6-1
```

```
6.1
                                          , 10
                              ASCII,
            lab6-2.asm.
                                                   6.2.(.6,7).
 5.
    [mdyanushkevich@fedora lab06]$ touch lab6-2.asm
%include 'in_out.asm'
SECTION .text
GLOBAL _start
_start:
           mov eax, '6'
           mov ebx, '4'
           add eax,ebx
           call iprintLF
           call quit
                                   lab06
                                              lab6-2.asm
                6.2.
                            [mdyanushkevich@fedora lab06]$ nasm -f elf lab6-2.asm
                            [mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o lab6-2 lab6-2.
                            [mdyanushkevich@fedora lab06]$ ./lab6-2
                            [mdyanushkevich@fedora lab06]$
 6.
                      .( .8).
                  106.
 7.
                            6.2.
                                                    .( .9,10).
```

```
SECTION .text
    GLOBAL _start
    _start:
                mov eax, 6
                mov ebx, 4
                add eax,ebx
                call iprintLF
                call quit
[mdyanushkevich@fedora lab06]$ nasm -f elf lab6-2.asm
[mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o lab6-2 lab6-2.o
[mdyanushkevich@fedora lab06]$ ./lab6-2
       lab6-2.asm
                         10.
               lab6-2.asm
  8.
                                     iprintLF
                                                 iprint.( .11,12).
       call iprint
[mdyanushkevich@fedora lab06]$ nasm -f elf lab6-2.asm
[mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o lab6-2 lab6-2.o
[mdyanushkevich@fedora lab06]$ ./lab6-2
10[mdyanushkevich@fedora lab06]$
    lab6-2.asm
                      iprintLF
                              iprint.
                      10.
                                        iprintLF, iprint
  9.
           lab6-3.asm
                          lab06.
                                    touch lab6-3.asm
                       .(..13,14,15).
```

%include 'in_out.asm'

10

```
%include 'in_out.asm'
        SECTION .data
        div: DB 'Результат: ',0
        rem: DB 'Остаток от деления: ',0
        SECTION .text
        GLOBAL _start
        _start:
        mov eax,5
        mov ebx,2
        mul ebx
        add eax,3
        xor edx,edx
        mov ebx,3
        div ebx
        mov edi,eax
        mov eax, div
        call sprint
        mov eax,edi
        call iprintLF
        mov eax, rem
        call sprint
        mov eax,edx
        call iprintLF
```

call quit

```
%include 'in_out.asm'
              SECTION .data
              div: DB 'Результат: ',0
              rem: DB 'Остаток от деления: ',0
              SECTION .text
              GLOBAL _start
              _start:
              mov eax,4
              mov ebx,6
              mul ebx
              add eax,2
              xor edx,edx
              mov ebx,5
              div ebx
              mov edi,eax
              mov eax, div
              call sprint
              mov eax,edi
              call iprintLF
              mov eax, rem
              call sprint
              mov eax,edx
              call iprintLF
              call quit
(.16,17).
```

[mdyanushkevich@fedora lab06]\$ nasm -f elf lab6-3.asm

[mdyanushkevich@fedora lab06]\$ ld -m elf_i386 -o lab6-3 lab6-3.c

```
%include 'in_out.asm'
SECTION .data
msg: DB 'Введите No студенческого билета: ',0
rem: DB 'Ваш вариант: ',0
SECTION .bss
x: RESB 80
SECTION .text
GLOBAL _start
_start:
mov eax, msg
call sprintLF
mov ecx, x
mov edx, 80
call sread
mov eax,x
call atoi
xor edx,edx
mov ebx,20
div ebx
inc edx
mov eax, rem
call sprint
mov eax,edx
call iprintLF
call quit
```

```
[mdyanushkevich@fedora lab06]$ nasm -f elf variant.asm
      [mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o variant variant.o
      [mdyanushkevich@fedora lab06]$ ./variant
      Введите No студенческого билета:
      1132231840
      Ваш вариант: 1
                 touch
                                                    lab06.
                                variant.asm
                     6.4.
                                        -1132231840).
                                                                          1,
                             №1.
4
                                             :" mov eax,rem, call sprint.
  1.
  2.
                                                 eax
                     , edx
  3. Call atoi
                                    ASCII
  4. mov eax,x -
                                             . call atoi xor edx,edx mov ebx,20
     {\rm div}\ {\rm ebx}\ {\rm inc}\ {\rm edx}
  5.
                          edx.
  6.
                                          1,
                          eax,
                                                                   eax.
                                                    . call iprintLF
  7. mov eax,edx -
5
  1.
                                                                        y=f(x).
                         asm.
                                                                        .( .21).
```

.и	Имя	Размер	Врек	ı Rı	правки
/		-BBEPX-	ноя	13	10:18
in_out.asm			ноя		
*lab6-1		5160	ноя	13	10:50
lab6-1.asm		188	ноя		
lab6-1.o		1200	ноя	13	10:50
*lab6-2		5088	ноя	13	11:25
lab6-2.asm			ноя		
lab6-2.o		1040	ноя	13	11:25
*lab6-3		9072	ноя	13	16:29
lab6-3.asm			ноя		
lab6-3.o		1328	ноя	13	16:29
*variant		9160	ноя	13	16:36
variant.asm			ноя		
variant.o		1440	ноя	13	16:36
variant1.asm		395	ноя	13	16:34

```
%include 'in_out.asm'
        SECTION .data
        msg: DB 'Введите число: ',0
        SECTION .bss
        x: RESB 80
        SECTION .text
        GLOBAL _start
        _start:
        mov eax, msg
        call sprint
        mov ecx,x
        mov edx,80
        call sread
        mov eax,x
        call atoi
        mov ebx,2
        mul ebx
        add eax,10
        mov ebx,3
        div ebx
        mov edi,eax
        mov eax,edi
        call iprintLF
        call quit
```

```
variant1.asm,
                                    midnight commander
     y=(10+2x)/3,
                       1=1, 2=10.
                                             [mdyanushkevich@fedora lab06]$ nasm -f elf variant1.asm
                                             [mdyanushkevich@fedora lab06]$ ld -m elf_i386 -o variant1 var
                                             [mdyanushkevich@fedora lab06]$ ./variant1
                                             Введите число: 10
                                             [mdyanushkevich@fedora lab06]$ gedit variant1.asm
                                             [mdyanushkevich@fedora lab06]$ ./variant1
                                             Введите число: 1
                                             [mdyanushkevich@fedora lab06]$ ./variant1
Введите число: 10
                                     .( .23). 10
  2.
                             4 10,
6
```

NASM,

y=f(x).

NASM.

Linux