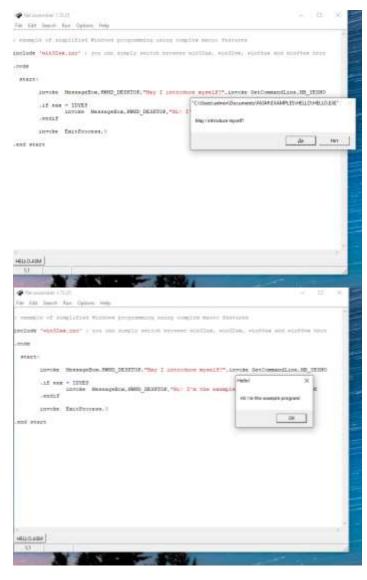
Семинар №1. Отчет о проделанной работе.

Филиппова Мария, БПИ-196

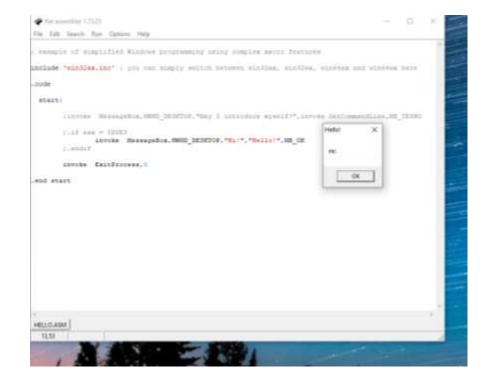
Задание

Найти в различных источниках информации не менее пяти примеров консольных программ разной сложности, написанных на изучаемом Ассемблере. Откомпилировать и запустить их с различными тестовыми наборами данных. Результаты работы программ зафиксировать в виде скриншотов.

1. Вывод на экран

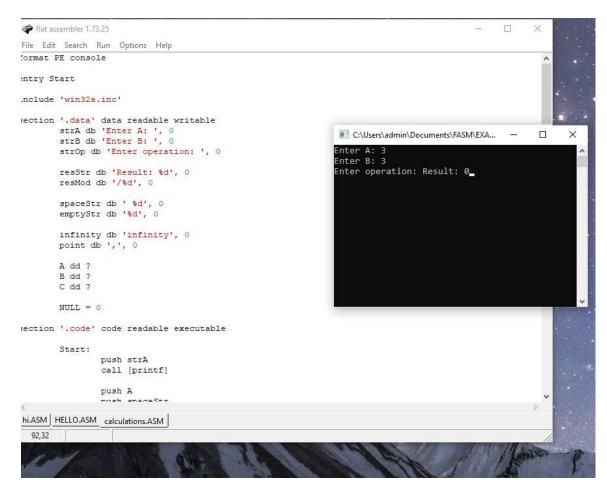


Изменим программу: закомментируем конструкцию if



2. Калькулятор

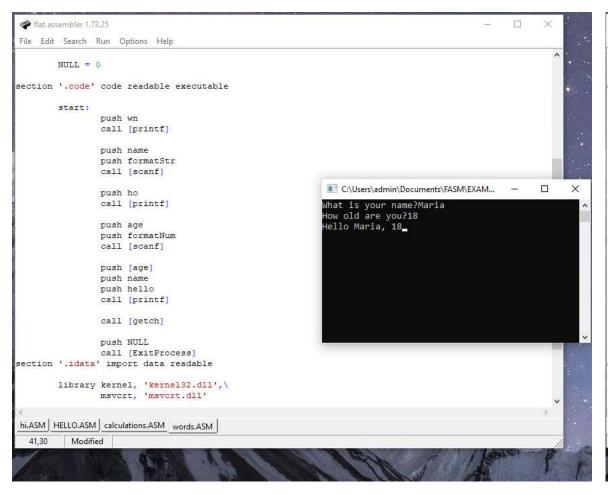
3 - 3 = 0



2/0 = infinity

```
flat assembler 1.73.25
                                                                                               File Edit Search Run Options Help
format PE console
entry Start
include 'win32a.inc'
section '.data' data readable writable
        strA db 'Enter A: ', 0
        strB db 'Enter B: ', 0
        strOp db 'Enter operation: ', 0
                                                                   C:\Users\admin\Documents\FAS...
        resStr db 'Result: %d', 0
                                                                   Enter A: 7
        resMod db '/%d', 0
                                                                   Enter B: 0
                                                                   Enter operation: infinity_
        spaceStr db ' %d', 0
        emptyStr db '%d', 0
        infinity db 'infinity', 0
        point db ',', 0
        A dd ?
        B dd ?
        C dd ?
        NULL = 0
section '.code' code readable executable
        Start:
                push strA
                call [printf]
                push A
                much enamager
hi.ASM | HELLO.ASM calculations.ASM
  92,32
```

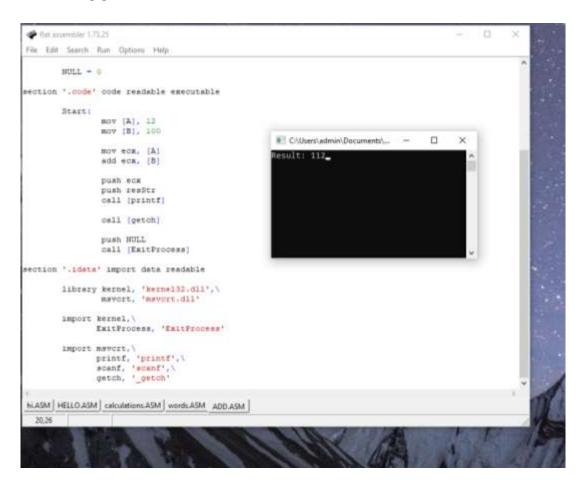
3. «Вежливое» приложение



```
flat assembler 1.73.25
 File Edit Search Run Options Help
        NULL = 0
section '.code' code readable executable
        start:
                 push wn
                 call [printf]
                 push name
                 push formatStr
                 call [scanf]
                                                                      ■ Выбрать C:\Users\admin\Docu... —
                                                                      What is your name?Alex
                 push ho
                                                                     How old are you?10
Hello Alex, 10_
                 call [printf]
                 push age
                 push formatNum
                 call [scanf]
                 push [age]
                 push name
                 push hello
                 call [printf]
                 call [getch]
                 push NULL
                 call [ExitProcess]
section '.idata' import data readable
        library kernel, 'kernel32.dll',\
                 msvcrt, 'msvcrt.dll'
hi.ASM | HELLO.ASM | calculations.ASM | words.ASM
```

4. Сложение 2 чисел

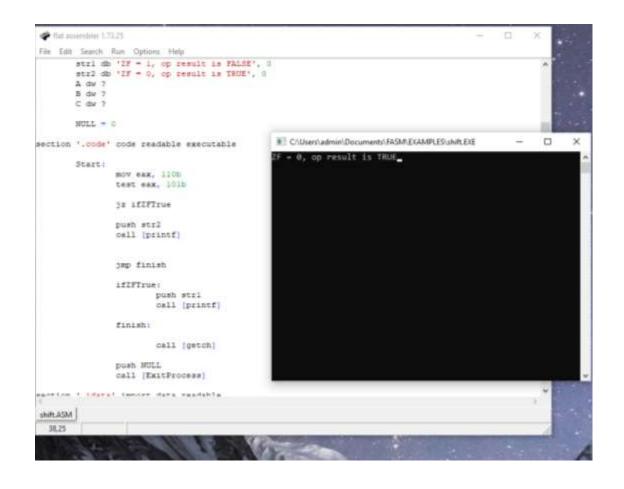
12 + 100 = 112



1227899999 + 100000 = 1227999999

```
for assentitor 1.73.25
 File Edit Search Fun Options Help
        MULL - D
section '.code' code readable executable
        Start:
                mov [A], 1227899999
                                                 IEI C\Usen\admin\Documents\FA... - □ X
                mov [B], 100000
                                                 esult: 1227999999
                mov ecz. (A)
                add ecz, [B]
                push ecs
                push resitz
                call [printf]
                call [getch]
                push WOLL
                call [EmitProcess]
section '.idata' import data readable
        library kernel, 'kernel32.dll', \
                mayort, 'mayort.dll'
        import kernel, \
               ExitProcess, 'ExitProcess'
        import mayort, \
               printf, 'printf', \
               scenf, 'scenf', \
               getch, ' getch'
 NIASM | HELLO.ASM | calculations.ASM | words.ASM | ADD.ASM |
```

5. Логическая команда test



```
That assembles 1,73,25
File Edit Search Run Options Help
       strl db 'IF = 1, op result is FALSE', 0
       str2 db 'IF = 0, op result is TRUE', 0
       B dw 7
       C dw 1
       NULL - 0
section '.code' code readable executable
                                                 ■ C\Users\admin\Documents\FASM\EXAMPLES\s...
       Start
                                                   * 1, op result is FALSE_
               mov. eax. 10b
               test eas, 101b
               32 ifletrue
               push str2
               call [printf]
               jmp finish
               AfZFTrue:
                       push strl
                       call (printf)
               finish
                       call [getch]
               push NULL
               call [EmitProcess]
santine i titeral tenner data raadable
shift.ASM
```