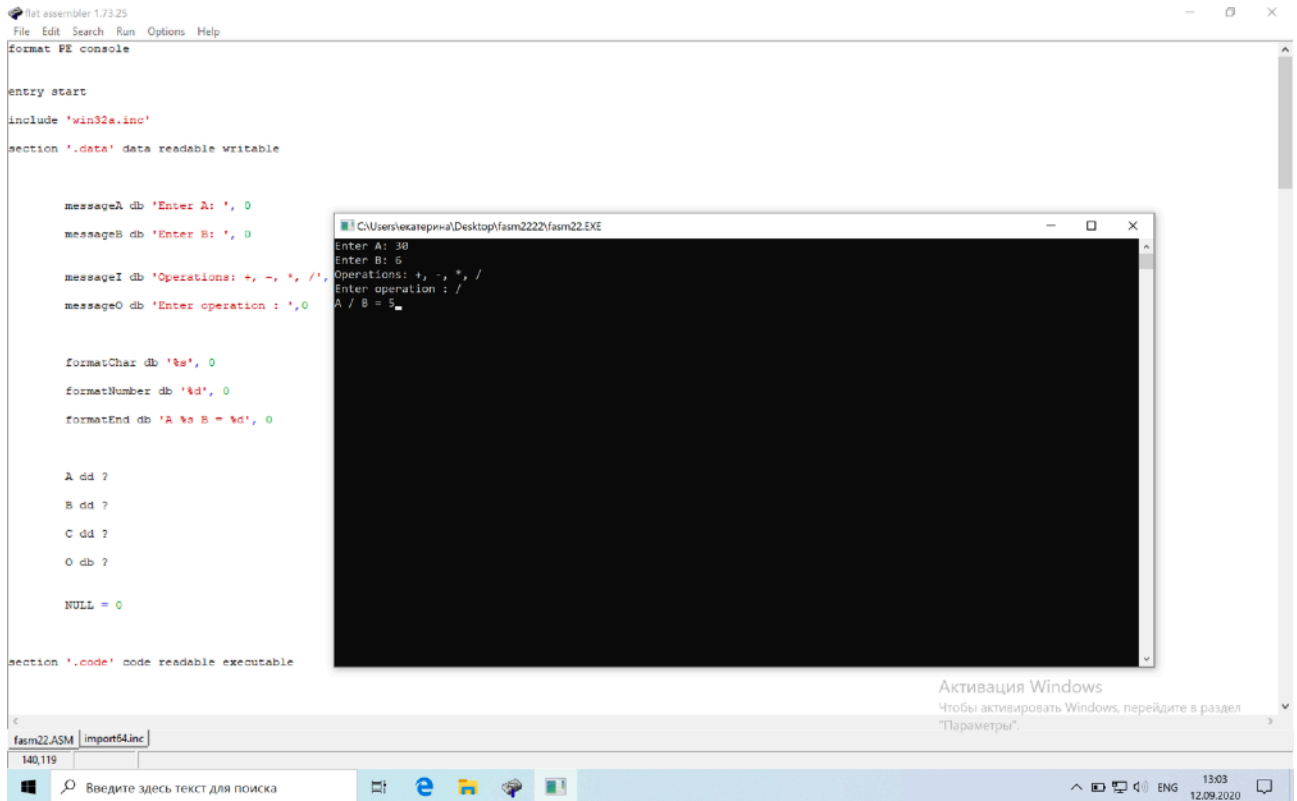


Штанько Екатерина Олеговна 193

1. Калькулятор



The screenshot shows a Windows desktop with two windows. The background window is the NASM assembler interface (version 1.73.25) with the following assembly code:

```
format PE console

entry start

include 'win32a.inc'

section '.data' data readable writable

    messageA db 'Enter A: ', 0
    messageB db 'Enter B: ', 0

    messageI db 'Operations: +, -, *, /', 0
    messageO db 'Enter operation : ', 0

    formatChar db '%s', 0
    formatNumber db '%d', 0
    formatEnd db 'A %s B = %d', 0

    A dd ?
    B dd ?
    C dd ?
    O db ?

    NULL = 0

section '.code' code readable executable

fasm22.ASM | import54.inc
```

Overlaid on top of the NASM window is a smaller window titled 'C:\Users\екатерина\Desktop\asm222\asm22.EXE'. It displays the following text:

```
Enter A: 30
Enter B: 6
Operations: +, -, *, /
Enter operation : /
A / B = 5
```

The Windows taskbar at the bottom shows the search bar, task view button, and several pinned applications. The system tray on the right indicates the time as 13:03 on 12.09.2020.

C:\Users\екатерина\Desktop\something\fyт.EXE

```
Enter A: 45
Enter B: 9
Operations: +, -, *, /
Enter operation : /
A / B = 5
```

C:\Users\екатерина\Desktop\something\fyт.EXE

```
Enter A: 6
Enter B: 3
Operations: +, -, *, /
Enter operation : +
A + B = 9
```

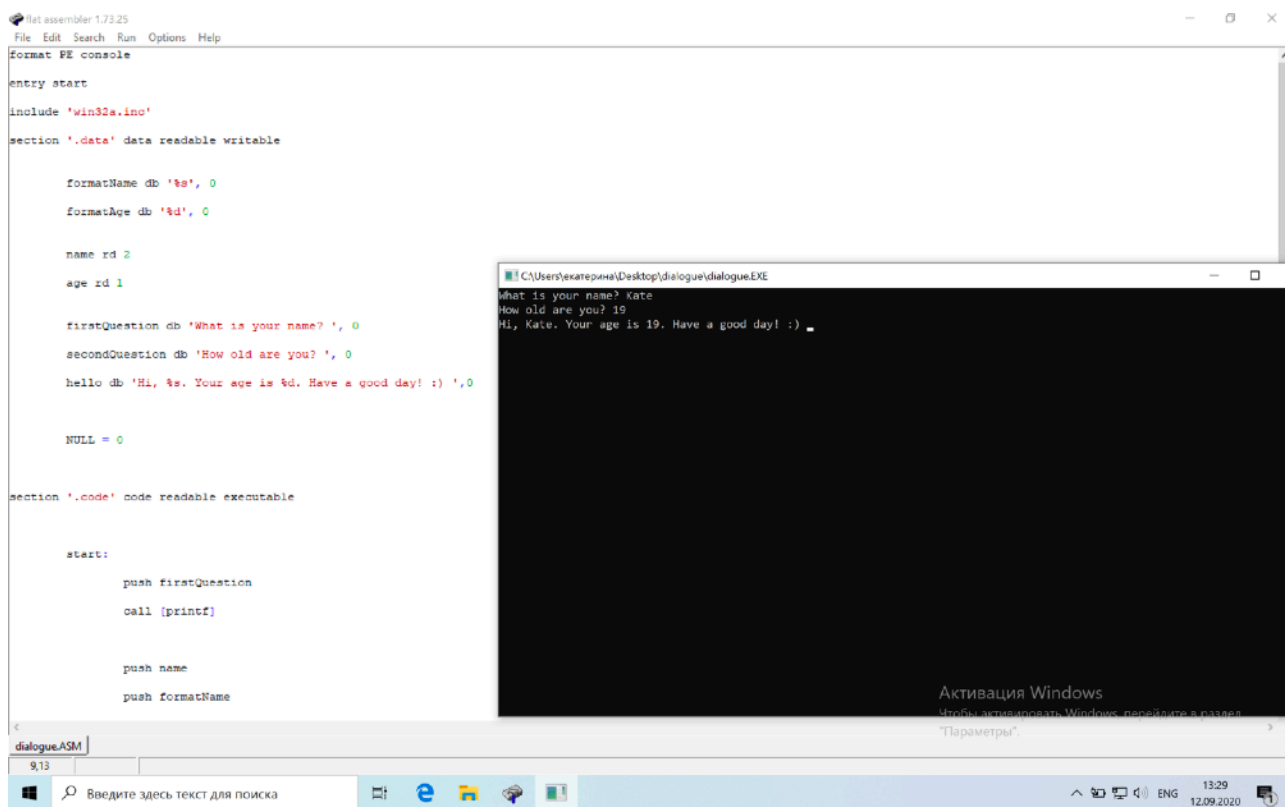
C:\Users\екатерина\Desktop\something\fyт.EXE

```
Enter A: 6
Enter B: 5
Operations: +, -, *, /
Enter operation : -
A - B = 1
```

C:\Users\екатерина\Desktop\something\fyт.EXE

```
Enter A: 8
Enter B: 2
Operations: +, -, *, /
Enter operation : *
A * B = 16
```

2. Диалог с программой



The screenshot shows a Windows desktop with two windows. The background window is 'x86 assembler 1.73.25'. It contains assembly code for a program that asks for a name and age, then prints a greeting. The code is as follows:

```
format PE console
entry start
include 'win32a.inc'
section '.data' data readable writable

    formatName db '%s', 0
    formatAge db '%d', 0

    name rd 2
    age rd 1

    firstQuestion db 'What is your name? ', 0
    secondQuestion db 'How old are you? ', 0
    hello db 'Hi, %s. Your age is %d. Have a good day! :) ', 0

    NULL = 0

section '.code' code readable executable

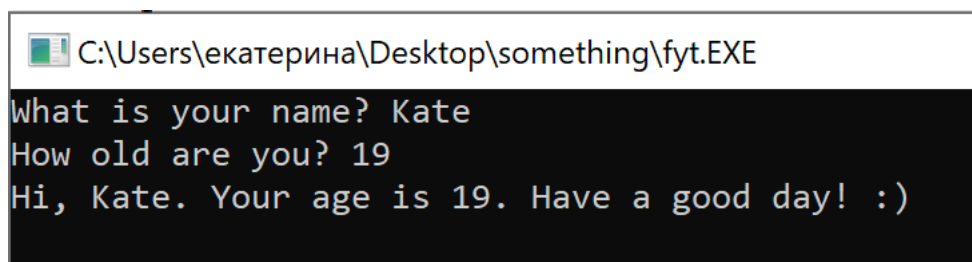
start:
    push firstQuestion
    call [printf]

    push name
    push formatName
```

The foreground window is a console application titled 'C:\Users\екатерина\Desktop\dialogue\dialogue.EXE'. It displays the output of the program:

```
What is your name? Kate
How old are you? 19
Hi, Kate. Your age is 19. Have a good day! :)
```

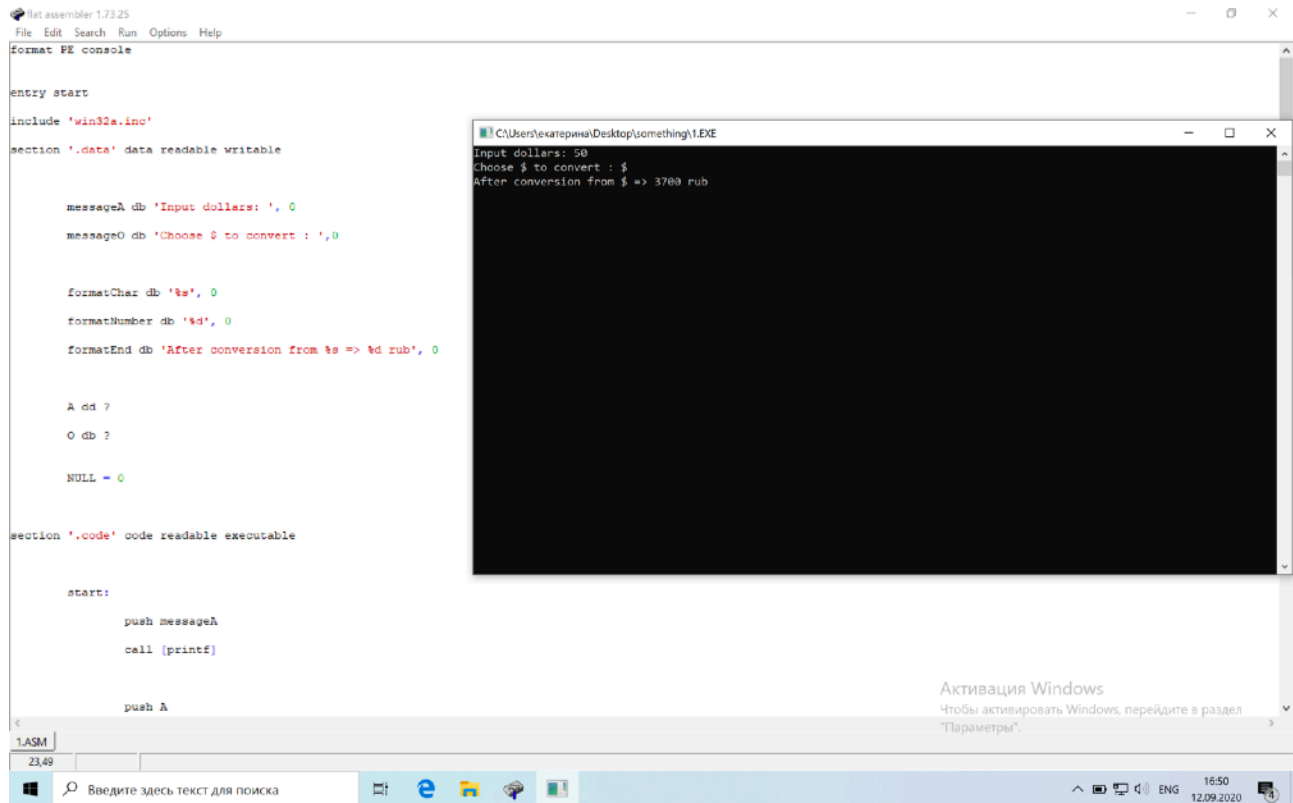
The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date and time '13:29 12.09.2020'.



The screenshot shows a console window titled 'C:\Users\екатерина\Desktop\something\fyf.EXE'. It displays the output of the program:

```
What is your name? Kate
How old are you? 19
Hi, Kate. Your age is 19. Have a good day! :)
```

3. Конвектор из долларов в рубли.



The screenshot shows a Windows desktop environment. In the foreground, the NASM assembler interface is open, displaying assembly code for a program. The code includes directives for sections, data, and code, as well as instructions for printing messages and performing calculations. A console window titled 'C:\Users\екатерина\Desktop\something\1.EXE' is also open, showing the program's execution. The console displays the following text:

```
Input dollars: 50
Choose $ to convert : $
After conversion from $ => 3700 rub
```

The NASM window shows the following assembly code:

```
entry start
include 'win32a.inc'
section '.data' data readable writable

    messageA db 'Input dollars: ', 0
    messageD db 'Choose $ to convert : ', 0

    formatChar db '%s', 0
    formatNumber db '%d', 0
    formatEnd db 'After conversion from %s => %d rub', 0

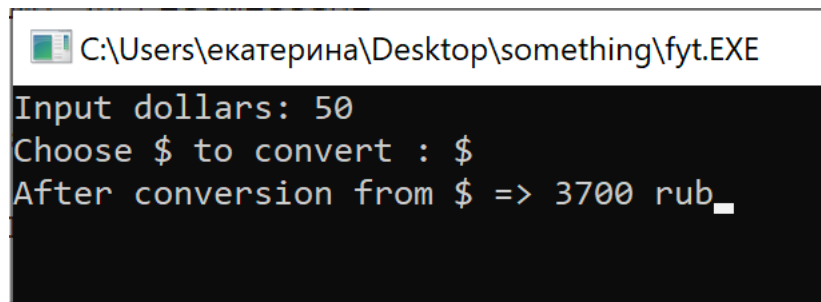
    A dd ?
    D db ?

    NULL = 0

section '.code' code readable executable

start:
    push messageA
    call [printf]

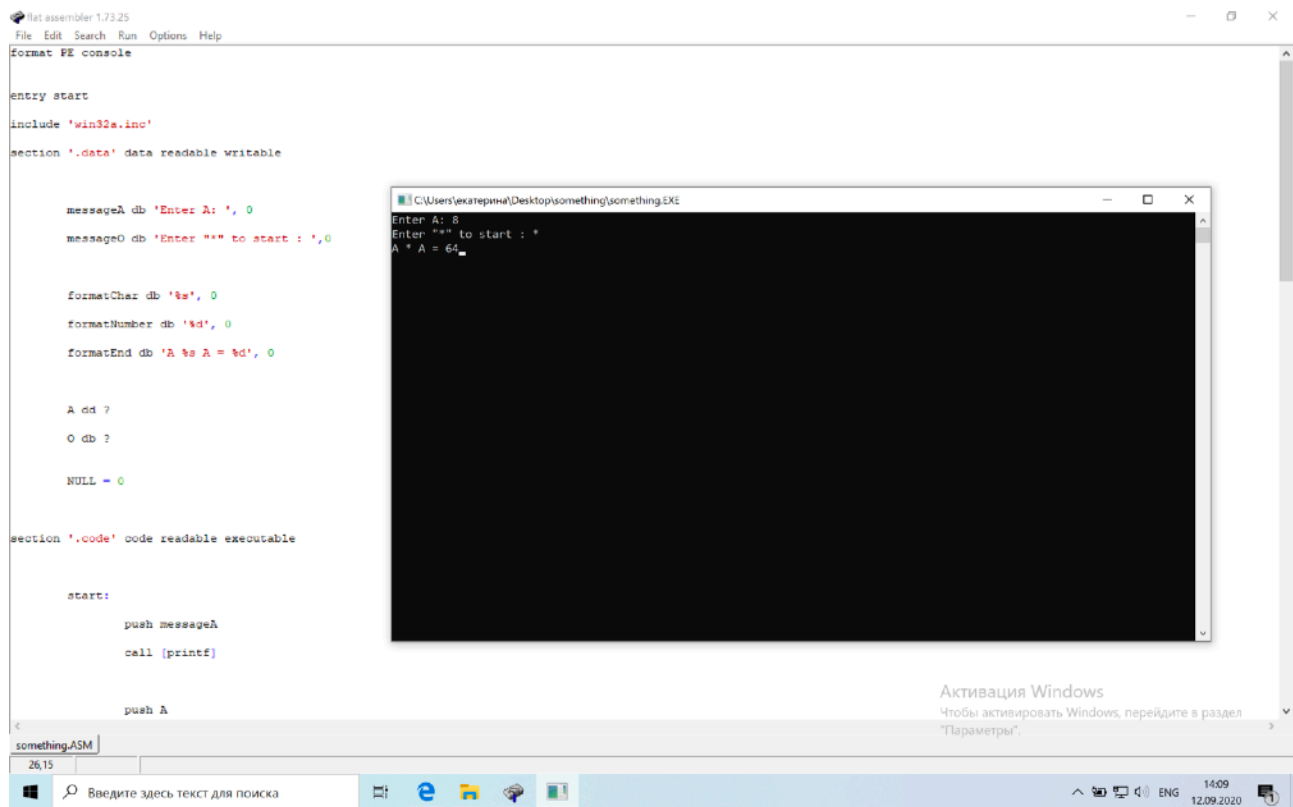
    push A
```



The screenshot shows a console window titled 'C:\Users\екатерина\Desktop\something\1.EXE'. The console displays the following text:

```
Input dollars: 50
Choose $ to convert : $
After conversion from $ => 3700 rub
```

4. Возведение в квадрат



The screenshot shows a Windows desktop environment. In the foreground, the NASM assembler interface (version 1.73.25) is open, displaying assembly code for a program. The code includes directives for the console, data section, and code section. It defines two messages, 'Enter A: ' and 'Enter "*" to start : ', and sets up a variable 'A' to hold the input. The code then prompts the user to enter a value and another character to start the calculation. In the background, a console window titled 'C:\Users\ekaterina\Desktop\something\something.EXE' is running, showing the output of the program. The console displays the prompts and the user's input, resulting in the calculation 'A * A = 64'.

```
format PE console

entry start

include 'win32a.inc'

section '.data' data readable writable

    messageA db 'Enter A: ', 0
    message0 db 'Enter "*" to start : ', 0

    formatChar db '%s', 0
    formatNumber db '%d', 0
    formatEnd db 'A * A = %d', 0

    A dd ?
    O db ?

    NULL = 0

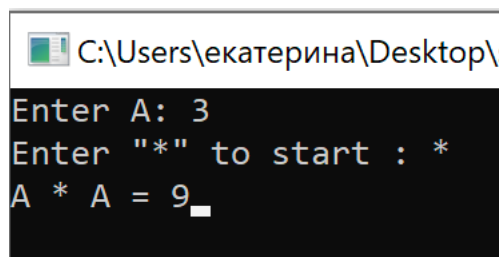
section '.code' code readable executable

start:

    push messageA
    call [printf]

    push A
```

Активация Windows
Чтобы активировать Windows, перейдите в раздел "Параметры".



The screenshot shows a console window with the following text:

```
C:\Users\екатерина\Desktop\
Enter A: 3
Enter "*" to start : *
A * A = 9
```

5. Hello World

