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1.asm - week-3 - Visual Studio Code

EXPLORER

WEEK-3

1

1.asm

1.o

2

2.o

3

3.asm

3.o

4

4.o

4.asm

4.o

5.asm

31.asm

function.asm

1.asm

33

34

35

36

37

38

39

40

41

42

43

44

45

call print\_num ;print the greatest of the 5 numbers

new\_line ;print new line

exit ;exit the program

section .data

msg db 'The highest number is:'

len equ \$-msg

a dw 900

b dw 990

c dw 680

d dw 800

e dw 801

TERMINAL

PROBLEMS

OUTPUT

DEBUG CONSOLE

2: wsl

68

69

70

71

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$ nasm -f elf 3.asm && ld -m elf\_i386 -s -o 3 3.o && ./3

Factorial is:39916800

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$ nasm -f elf 1.asm && ld -m elf\_i386 -s -o 1 1.o && ./1

The highest number is:990

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$

Ln 44, Col 9

Spaces: 4

UTF-8

CRLF

ARM

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2.asm - week-3 - Visual Studio Code

EXPLORER

WEEK-3

1

1.asm

1.o

2

2.asm

2.o

3

3.asm

3.o

4

4.asm

4.o

5.asm

31.asm

function.asm

2.asm

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

mov ecx,edx

mov eax,1

toR:

pushad

call print\_num

new\_line

popad

inc eax

loop toR

exit

section .data

msg db 'R='

len equ \$-msg

TERMINAL

PROBLEMS

OUTPUT

DEBUG CONSOLE

2: wsl

64

65

66

67

68

69

70

71

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$

Ln 37, Col 5

Spaces: 4

UTF-8

CRLF

ARM

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Terminal

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3.asm - week-3 - Visual Studio Code

EXPLORER

...

WEEK-3

1

1.asm

1.o

2

2.asm

2.o

3

3.asm

3.o

4

4.asm

4.o

5.asm

31.asm

function.asm

1

2

3

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5

6

7

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11

12

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14

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25

26

ASM 3.asm

1 %include "function.asm"

2 start

3 write\_message msg,len

4 mov eax,1

5 mov ecx,[num]

6 call fact ;call function

7 call print\_num ;number in eax register

8 new\_line ;print new line

9 exit

10

11 fact:

12 cmp ecx,1 ;terminating condition

13 je fin

14 dec ecx

15 call fact ;recursively call function until ecx becomes 1

16 inc ecx

17 mov ebx,ecx

18 mul ebx ;multiply next number

19 fin:

20 ret

21

22 section .data

23 msg db 'Factorial is:'

24 len equ \$-msg

25 num db 11

26

TERMINAL

PROBLEMS

OUTPUT

DEBUG CONSOLE

2: wsl

66

67

68

69

70

71

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$ nasm -f elf 3.asm && ld -m elf\_i386 -s -o 3 3.o && ./3

Factorial is:39916800

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$

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Live Share

Ln 23, Col 22

Spaces: 4

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ARM

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File

Edit

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Help

4.asm - week-3 - Visual Studio Code

EXPLORER

WEEK-3

1

1.asm

1.o

2

2.asm

2.o

3

3.asm

3.o

4

4.asm

4.o

5.asm

31.asm

function.asm

1

function.asm

1.asm

3.asm

2.asm

4.asm

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

pushad

new\_line

write\_message msg,len

popad

mov eax,ebx

call print\_num

new\_line

exit

section .data

msg db 'The sum of the numbers is:'

len equ \$-msg

s db 32

p db 8

TERMINAL

PROBLEMS

OUTPUT

DEBUG CONSOLE

2: wsl

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38 47 96 49 50 27 60

The sum of the numbers is:367

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$ nasm -f elf 4.asm && ld -m elf\_i386 -s -o 4 4.o && ./4

38 47 96 49 50 27 60 97

The sum of the numbers is:464

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$ nasm -f elf 4.asm && ld -m elf\_i386 -s -o 4 4.o && ./4

38 47 96 49 50 27 60 97

The sum of the numbers is:464

manas@LAPTOP-U09MU8FI:/mnt/d/assembly\_code/week-3\$

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Live Share

Ln 44, Col 7

Spaces: 4

UTF-8

CRLF

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