31.01.2020

Subject I

Subject II

x dw -256, 256h

**x: 00 FF | 56 02**

256 = 0001 0000 0000b

-256 = 1111 0000 0000b = FF00h

y dw 256|-256, 256h&256

**y: 00 FF | 00 00**

256|-256 = 0000 0001 0000 0000b | 1111 1111 0000 0000b = 1111 1111 0000 0000b = FF00h

256h&256 = 0010 0101 0110b & 0001 0000 0000b = 0000 0000 0000b = 0000h

z db $-z, y-x

db ‘y’-‘x’, ‘y-x’

**z: 00 | 04 | 01 | ‘y’ ‘-‘ ‘x’**

$-z = 0

y-x = 4-0 = 4

a db 512>>2, -512<<2

**a: 80 | 00**

512>>2 = 0010 0000 0000b>>2 = 1000 0000b = 80h

-512<<2 = 1110 0000 0000b<<2 = 1000 0000 0000 = F800h => 00h

b dw z-a, !(z-a)

**b: 08 00 | 00 00**

z-a = 8-0 = 8

c dd ($-b)+(d-$), $-2\*y+3

**syntax error d doesn’t exist at this this point**

d db -128, 128^(~128)

**d: 80 | FF**

-128 = 1000 0000b = 80h

128^(~128) = 1000 0000b^0111 1111b = 1111 1111b = FFh

e times 2 resw 6

times 2 dd 1234h, 5678h

**e: 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | 00 00 | => 12 words**

**34 12 00 00 | 78 56 00 00 | 34 12 00 00 | 78 56 00 00**

Subject III