Coal Lab 05

Q1:

Output:

```
EAX=00001F41 EBX=01105000 ECX=005310AA EDX=005310AA ESI=005310AA EDI=005310AA EBP=00FEFEE8 ESP=00FEFEDC EIP=00533672 EFL=000000206 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=1
```

Q2:

Output:

cf = 1, sf = 0, zf = 1, of = 0

```
EAX=00D97F00 EBX=00E67000 ECX=00C910AA EDX=00C910AA ESI=00C910AA EDI=00C910AA EBP=00D9FCD8 ESP=00D9FCCC EIP=00C93670 EFL=000000247 CF=1 SF=0 ZF=1 OF=0 AF=0 PF=1
```

```
cf = 0, sf = 1, zf = 0, of = 1
```

```
EAX=00D98000 EBX=00E67000 ECX=00C910AA EDX=00C910AA
ESI=00C910AA EDI=00C910AA EBP=00D9FCD8 ESP=00D9FCCC
EIP=00C93678 EFL=00000A92 CF=0 SF=1 ZF=0 OF=1 AF=1 PF=0
```

```
cf = 0, sf = 1, zf = 0, of = 0
```

```
EAX=00D98002 EBX=00E67000 ECX=00C910AA EDX=00C910AA ESI=00C910AA EDI=00C910AA EBP=00D9FCD8 ESP=00D9FCCC EIP=00C93681 EFL=00000282 CF=0 SF=1 ZF=0 OF=0 AF=0 PF=0
```

Q3:

Output:

COMMENT @

If the array size is word or dword then in word, we will access the next elemen by [array +2] and so on; for dword [array +4] and so on

 \widehat{a}

Q4:

Output

```
Registers

EAX = 000002F8 EBX = 00000000 ECX = 003F100A EDX = 003F100A ESI = 003F100A EDI = 003F100A EIP = 003F367C ESP = 0087FEA8 EBI

0x003F6015 = 00000000

main.asm ≠ X

15  mov eax, arrayD

16  movzx ebx, arrayW

17  add eax, ebx

18  movzx ebx, arrayB

19  add eax, ebx

mov sum1, eax ≤1ms elapsed
```

Q7:

Output:

```
Registers

EAX = 0000018C EBX = 01095000 ECX = 00CB100A EDX = 00CB100A ESI = 00000002 EDI = 00CB100A EIP = 00CB36B5 ESP = 00FAF8DC EBP = 00FAF8E8 EFL = 00

main.asm ♥ X

23

24

mov al, 0

mov esi, 0

mov esi, 2

add al, arrayB[esi * type arrayB]

27

28

add al, arrayB[esi * type arrayB]

call dumpregs ≤1mselapsed
```