

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE2214

Course Title : Assembly Language Programming Sessional

Assignment No : 03

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Section : A

- 1. Determine the physical address of a memory location given by OA51:CD904
- > find physical address formula = segment * 10 + offset

Location: OASI: COO CD90 h.

segment = 0A51

Offset = cD90

i, physical Address: OA51*10 + CD90

= 0A510 + cD90

= 172AO h,

- 2. A memory location has a physical address
 4A37Bh. Compute.
 - (2.1) The offset address it the segment number is 40 FFh
 - address is 123Bh.
- 21) > Physical address = 4A37Bh 3-egm-ent = 40 FF h

Physical address = Segment * 10 + Offset

4AB7 Bh = 40FFh* 10 + Offset

4B37Bh = 40FF0h + Offset

1. Offset = 4A37Bh-40FF0h

6Hset = 938Bh

2.2

We know that

physical address = S-egment * 10h + offset

thus

s-egment * 10h = physical address - offset

in this example

physical address = 4AB7Bh

- oftset = 123Bh

regment * 10h = 49140 h

1. so the segment = 4914h.

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