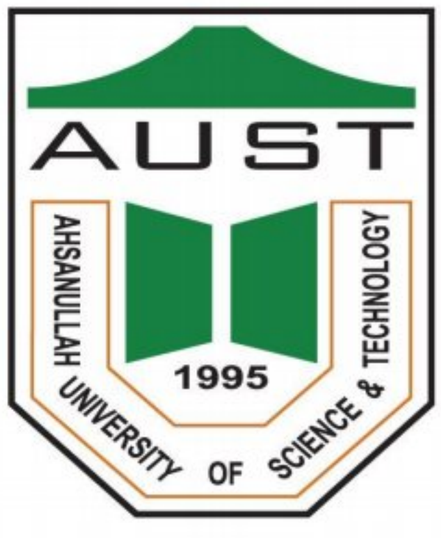

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE2214
Course Title : Assembly Language Programming Sessional
Assignment No : 03

Date of Performance : 15/12/21
Date of Submission : 22/12/21

Submitted To : Mr. Sajib Kumar Saha Joy & Zarin Tasnim Shejuti

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ID: 190204086
Course no: CSE2214
signature: Atiq

Question No: 01

Question: Determine the physical addresses of a memory location given by 0A51:CD90h

Answer: Here,

segment = 0A51h

Offset = CD90h

We know, physical Address = (segment * 10h) + offset

= (0A51h * 10h) + CD90h

= (0A510h) + CD90h

= 172A0 h.

∴ Physical Address is 172A0 h.

ID: 190204086
Course no: CSE2214
Signature: Atiq

Question No: 02

Question: A memory location has a Physical address 4A37Bh. Compute –

2.1. The offset address if the segment number is 40FFh.

2.2. The segment number if the offset address is 123Bh.

Answer:

We know,

physical Address = (segment * 10h) + Offset

∴ Offset = Physical Address – (segment * 10h)

= 4A37Bh – (40FFh * 10h)

= 4A37Bh – 40FF0h

∴ offset = 938Bh.

∴ segment = (Physical Address – Offset)/10h.

= (4A37Bh – 123Bh)/10h.

= 49140 h/10h

∴ segment = 4914 h