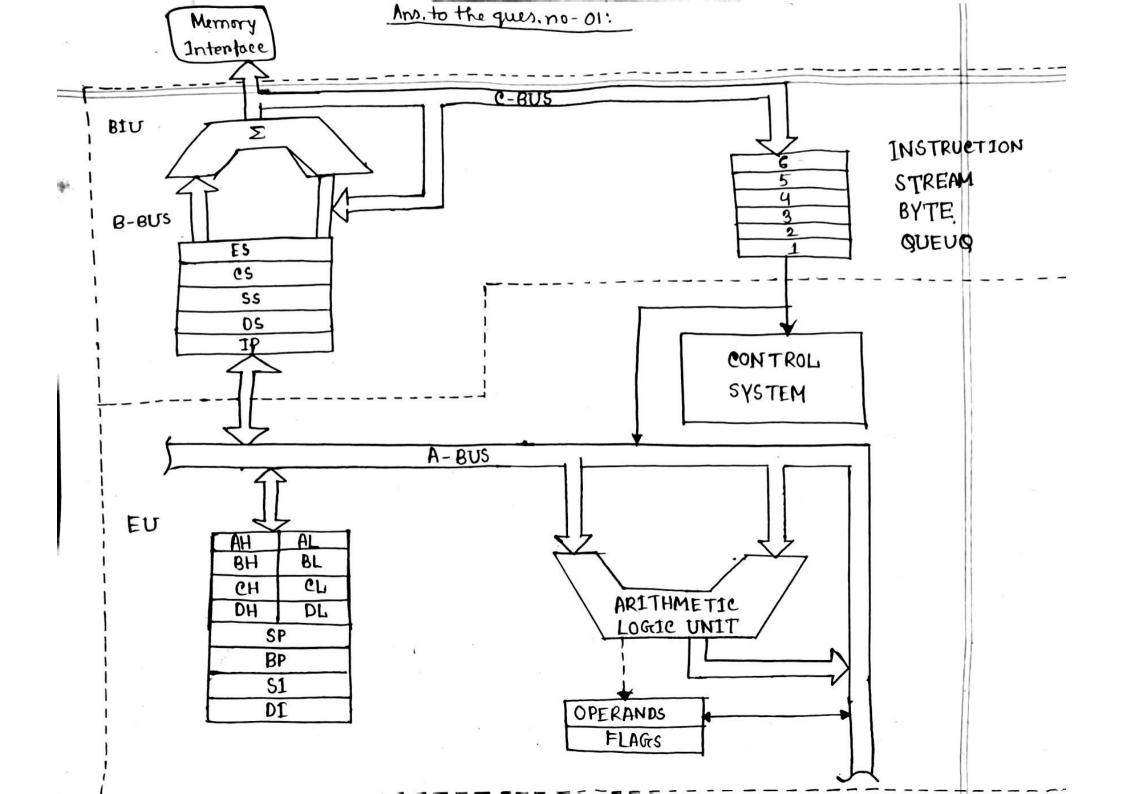
# Assignment-01 CSE 341

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Section: 10



## Ans. to the gues. no-02:

Base Address = (10000)n

Segment number = (1000) n

- (1FFF)<sub>n</sub>

  (1FFF)<sub>n</sub>
- © 14th address of the segment = (10000)h

  (1000B)h

:. 14th address = (1000D)n

# Ans, to the ques, no - 03;

12345h can not be a validistarting point. The reason is, we define the starting number as,

Starting address of the segment = Segment number x 10

=1234.5

A segment number can not be a decimal number. and so, (12345) be can not be a valid starting point.

### Ans. to the gues. no-04:

FFFFEh is the given physical address

Now, smallest the largest segment number should be.

50, Logical address = F000: FFFE

: Smallest (lowest) segment number = (FOOD)

Then, the highest number should be,

Physical address = (FFFE)n

Offset = - (000E)n

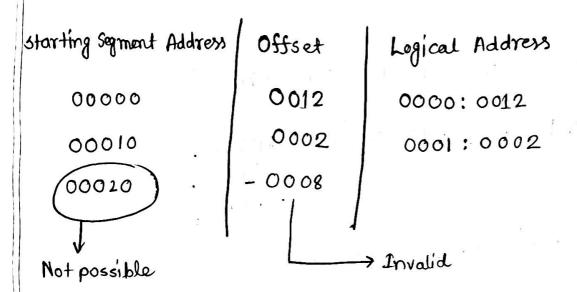
Base Address = (FFFFO)

50, Logical Address = FFFF: 000E

.: Largest (highest) segment number = (FFFF)

#### Ans. to the ques. no - 5:

@ (00012) nis 8 the given physical address,



In this case, 3 different logical addresses are not validly possible. The reason is, offset value has to be positive and, for this reason, it is not possible to generate 3 different logical addresses for (12) h physical address

@(FFFFE)h

Starting Segment	Addresses	Offset	Logical Addresses
F0000	ı 2i i	FRE	FOOD: FFFE
F0010	• • • •	FFEE.	FOOL : FFEE
F0020	(Tōo	FFDE	F001: FFDE.

The 3 different logical addresses of the (FFFFE), physical address are shown above.

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War Me 17th

Ans. to the gues. no - 6:

(i) Ax, (ABCD) n = 11010 1011 1100 1101

BX, (9876) n = 1001 1000 0111 0110

10100010001000011

(ii)

1

(iii) Zero flag = 0

Pority flag = 0

Sign-flag = 0

Carry flag = 1

(iv) Overstog Overslow slog = 01.

The reason is, both carry bit no only flows MSB bit to beyond MSB.

Here, 2nd lant MSB = 15th

hart MSB = 16th

Beyond MSB = 17th.

Here, carry flows from 16th bit to 17th bit only.

Asso, No carry flows from 1sth bit to 16th bit, the overflow flog return returns 1.