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**BRANCH – BTECH CSE**

**SEC = 13 A**

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**SUB- DATA STRUCTURE LAB**

QUESTION 3.

Suppose Base (AAA) = 300 and w=4 words per memory cell for AAA Array. Find address of AAA[45], AAA[35] and AAA[65] and array is Declared as AAA[899].

SOLUTION -

Base (AAA) = 300

Formula :-  $LOC (AAACK]) = Base (AAA) + W (K-LB)$

$LOC (AAA [45]) = 300 + 4 (45-0) = 300+180$

$= 480$

$LOC(AAA [35]) = 300 + 4(35)$

$= 300 + 140 = 440$

$LOC (AAA [65]) = 300 + 4 (65)$

$= 300 + 260 = 560$