Ans I Kow-major and column-major onder and methods for stexing multidimensional arrays in linear storage as rundom access memory [ 3 4] Row-magon: 1 2 3 4 (3 4) 2 = In Column- mago n LOC (ATi, j)): base address + W \* [M\*j+i] w= world size = no. of bytes occupied by each element BL IF M: no of Kows = In Row-Majore LOR (A Ti, j)) = base address + W · [N · i + ] N- no. of columns Row major is used in c/c++, Pascal, -Col major is used in Fortran, mathablete An alternative way to stone multidimensional army are stoxing pointers to nows in contiguous location, but not the nows them serves. So they were neither now majori on column -magore.

Aus 3

. There is no possibility of shift/reduce conflict

· There is RR conflic as the pariser can't decide whether ton neduce a by C on a by S.

First (A) = {a,c, c}

Finest (B) = {a,e, e}

Finest (C) = {a}

Follow (B) = {+3}

Follow (C) = {+3}

Follow (C) = {+3}

Follow (D) = {e, e}

Follow (D) = {e, e}

Follow (S) = {+6}

- . There is first linst conflict as S→A and S→a both have First late a
- · There is first bollow conflict as First(D) and Follow (D) both contain 'e'.

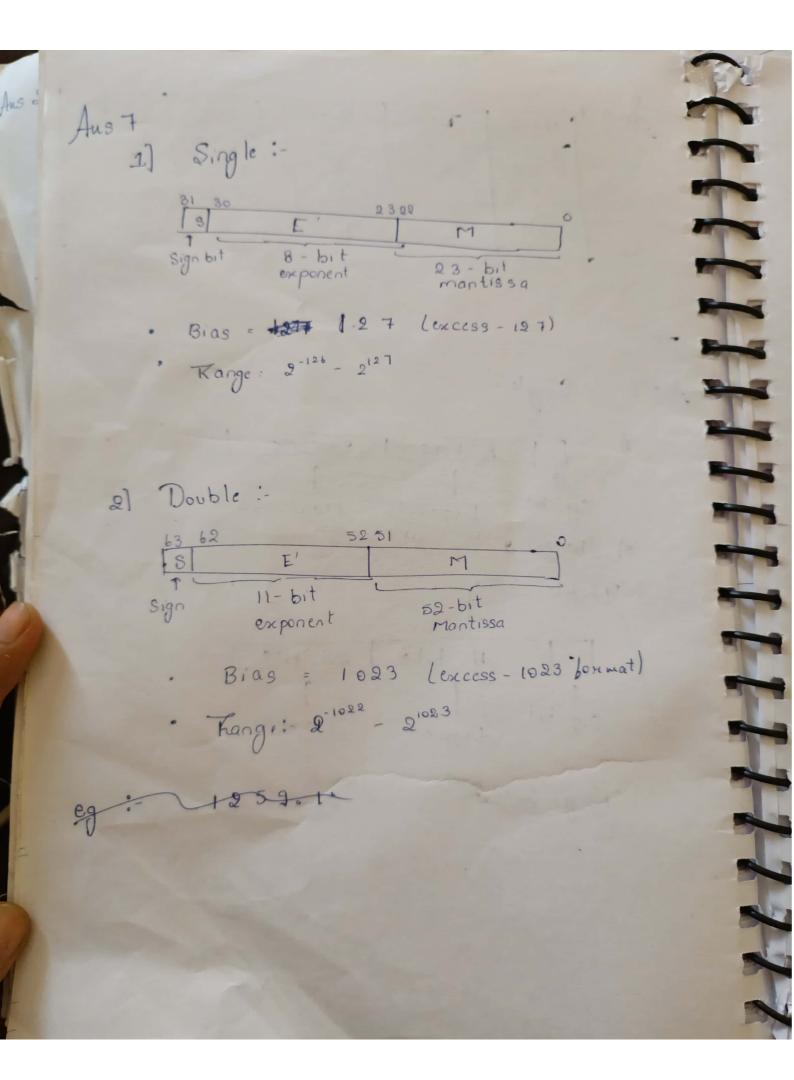
Aus 9. A description is the collection of the attributes of a variable.

- De scriptors are used for type-checking and building the code for allocation and deallocation operations
- A compile-time des criptore fore multidimensional average.

Multidimensional array.	
Element Type	}
Index Type pe	+
Numer of dimension	+
Index Range	T
	+
:Index Range n	+
address	

Aus 5 thing if !- bool 6:0 if (i== 1 11 b==1) { # code for case 1; b=2; } ele if (i== 2 11 b==1) {# -- for case 2; b=1; } using Goto: boot bes; 1) (i = = 1) goto case 1; 1) li == 2) joto case2; Casel: # code Case 2: # code Case 3: # code

Aus b yes, the union will save space but the value of data.i and data.f will be corrupted as union ean only hold one value at. a time: Correction :-Union Data data; dato . i = 10; printf ("1d", data.i); data.f = 220.5; print (data.f); data . Str = " c Pragramming"; print (data. str):



(1259. 125), Eg 1) Single: 1259 - 100 1110 1011 0.125 0.001 1259. 125 = 100 11101011, 001 - 400 111 01 011001 × 210 S=0, E x 10 , M. (00 111 010 11001); E1 = E+127 = (137)10 = (10001001)2 13 ias = 127 sign oxp. 0001001 0011101011001 00000 - -- 0 2) Double :-S-0, E=10, M = (00 111 0 10 11 001): E'= 10 + 1023 = 1033,0 = (1000000 1001)2 Bias = 1023 O 1000000 100! 001110101001 000 - 0

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