-Bitwise operaters Miscellanuous Concepts 1-They perform operation on the binary form of the numbers. O Ritwise 8 (AND) 081=0 a=4 b=8 100 1000 181=1 0100 31000 0000 = (0)10 can be verified in the code as well (2) Bitwise (OR) 0100 1000 (1100) = (12) 8+4=10 (3) Bitwise (xOR)
[Exclusive OR] if bits same = 0 If bits different = 1

0^0=0 0^1=1 a-4 b=8 1000 0100 1000 (1100) = (10) ceftshift | accb Actually it shifts the scc1 binary form by i 1000 linery n=4 (100) naci 1000 100 = 8.2 New = 8.2 2010 (6) 33 Bitwise added Rightshift. 10 221 on= a/26 1010 1041 1000 0010 (2),

Operater Precederce Precedence way operaters first second hird fourth C= 17=17 L-R severth R-L (a) (Maz Bitwise operaters exists we can overwrite all these operations using the bracket If operaters of some precedence con the 16 associative property applies 4 5 5 1,2

Area of accessibility (asability of the variables 1) local 2) Sope (alotal) I block of code & & accessible everywhere Data type modifiers Suppose int x=2 (4bytes) 210011011011 long 100g upto 32 1 signed 31 bits consigned Continations - 2 tue -ve If 232 comes int does not have capacity to store the value because have the opacity of , we can charge the capacity

-> long int lang double long gives extra ubytes -263 to 263-1 Long int 64 bits -) short 2 bytes will down the opacity to 2byte). long long 8 by les -> signed is signed by default signed nears con save -ue values -> usigned only positive value) MS to 32 bits no reed of Most significant So size increases opto which is double of -2³¹ to 2³¹