

RNSIT - Tech - 3rd Year - Semester - 6

2 - Java - Brush Up } $6 \times 6 = 36$ hrs
 DSA - 4 Days }
 C, C++, Python, }

{ AICTE
 { NAAC
 { NBA

1942 → Dennis Ritchie → $A + ext^n = B$

1st std Ver ANSI → 1989 1972 → ANSI-C

*	AND	$\rightarrow \&$	7 → 0111	Bit Masking
OR	$\rightarrow $	9 → 1001		
XOR	$\rightarrow \wedge$	$\frac{7 \& 9}{I \downarrow I} \quad \overbrace{0001}$	= 1	
RS	$\rightarrow \gg$	I Bit	I	
LS	$\rightarrow \ll$	Bit		
NOT	$\rightarrow \sim$	S 0101		

S - 0 D - 1
 6 → 0110 8 → 1000
 6 & 2 → 0100 518 → 1101 = 11

2 → 0010
 6 & 2 → $\frac{0010}{0100} = 4$

int hamming weight (int n) { $11 \rightarrow \underline{1011}$

$\begin{array}{r} \cancel{1011} \\ 0001 \\ \hline 0001 \end{array}$ $\begin{array}{r} n \& 1 \\ n \gg 1 \\ \hline \end{array}$ count = 0
 $\begin{array}{r} 101 \\ 001 \\ \hline 001 \end{array}$ 1, 2, 3
 $\begin{array}{r} 10 \\ 01 \\ \hline \end{array}$ $\begin{array}{r} 0101 \\ 0000 \\ 1111 \\ \hline S \rightarrow 2 \\ O \rightarrow 0 \\ IS \rightarrow 4 \end{array}$
 $\boxed{\begin{array}{r} 1 \\ 1 \\ \hline \end{array}}$
 $\boxed{\begin{array}{r} 2 \\ 0 \\ \hline \end{array}}$
 $\boxed{\begin{array}{r} 4 \\ 0 \\ \hline \end{array}}$
T C O Stop