6th Semester Engineering: > C, Python Distory of Programming Languages: > 1942 -> Denis Ritchie + Team L) 1838 -> Ada Lovelace L) UNIX-) Mc & MP A+ mod" -> B 1972 -> ANSI AICTE NAAL NBA -) American National Standards Turtitute BE/BTECH 1st Std Version —) 1989 CT SIMULA - Denmark Dijkstrais Bjærne Strousteup - Java - 1995 James Charling Lab -) Sun Micro Systems Lywido van Rossum > Monty [Python] Flying Circus Pointers Python Java Dlock 2 Block 1 ## include < stdooh > > Header File
Int main () { The processor Preproussor Directive Standard I/O Library sprintf ("JIT"); How does a C program get executed? ustipad Compile gny
VS code 10101 mingw MLL Object 1:67 Source > flandware CS IS PIML (AIDS System Software Application Software System Support Support Driver General Poplication Perpose Development Specific Whatsopp Editors MS office Relation b/w hardware & software: > Application Primary void Enumerated Derived
Integer Short int long void enum

Storinge Name Constants Pointers Floating Odouble Mon-Sun Stauct Jan - Dec —) Int -> 4 Littes Character union Char Short -> -128 to 127 int $\rightarrow -2^{31}$ to $2^{31}-1 \rightarrow 4byts$ INT_MIN INT-MAX -> C++ Java -) Integer. Max Value or Min Value long -> Some Coding Overtions. -> 8 bytes float -> 4byfes double -> 8 byfes asbare also called variables of identifiers. Lect ent b = 20; Sperator Z a + b = 30; } — Ea foreasion ferand operand Naming Conventions: camel functions;)
case reate Of Interest (); Pasul classes Rate of Interest (); _a Tuterface integer -> Format Specifiers
% of or % of out f
or2 f double -> % of or % or 2 from to specificus
char -> % c. o/s Zy binary unsigned Size of () -> o/o llu O1 long long unsigned * Oberators: (1) Arithmetic: -> +,-,/,%,* (1) Assignment Oberatous:)

Ly Augmente = , += , -= , /= , /· = , *= fol VL) Shouthand a = a + 2a(+=)2 shout cut and or(III) Logid -> 12, 11, 1 (v) Comparison Relational () > >, <, >=, <=, ==,

V) Unary Oberators () ++, -- (frefix postfix) (vi) Conditional / Ternary Oberator: > C/c++ (condition)? true Value : false Value;

data type match Java:-) Deta Type val = (condition)? tv of vo * Bitwise Oberators ?-> Bit Markeing / Manipulation
S-0, 6 Sperators bin bin 7 > 0101

xor-) 6 Sperators bin bin 10->10100 Bitwise AND -> & 527-> 0101=5 $\frac{1011}{0001}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{6}{8}$ $\frac{1000}{8}$ $\frac{1}{8}$ $\frac{6}{1000}$ 11-210112 Right Shift ->>> 618-71110 Left shift > << NOT -> ~ U Shift oberations:

8 bit version

value, a = 10

00000101 11 >> 2->2 11 << 3-) unit/steb = 2 a >> 2a << 2 64+16+8 = (88)Bituire Not Burtos:> NOT CHATE TRUTH TABLE $2^{1/3}$ $= 6 \rightarrow 0110 \rightarrow 1^{1/3}$ $1001 \rightarrow 1^{1/3}$ $10001 \rightarrow 1^{1/3}$ $10010 \rightarrow 1^{1/3}$