D3: er) program Declarations (int a, b, c; double d; b= 3\*(5+2); Statements C = (3+4) \*5; print b; print c: prent (2+3)\*7+213; \_end - peclarations () - recursive main() E read a word; I read a word; if (word = "program") of (word = "begin") (Call Declarations (): (Call Statements (): Lelse ("int" or "double") Call Declaration (5; 6) Lelse error; exit (1); (all Reclarations (): Declaration (word) wild symtab Symbol table I I - < char, stry, in global or Expressed id; id type value Struct node Store it in symbol table [indep]. id i 12 char idi Store word in Symbol table [inder] type: stop type: int 35 3: ut val: d dorble stret wode symbol tabl - Loop antil (3) meets: symbol lable [index]. id = a. rend a char: symbol date [ witer ]. type = "int". i.e. ( is ?), report Symbol table EidxI. val = 21; Lelse () -exitu) -

Statements () fatement (word) I read a word; if (word = "print") if (word = "end") call print-St() exit(1): -else (id) Call Assign\_St(world); Call Statement (word); call Statements (): print\_st(2 = extract val. from symmtate. E read a char (id); Eread a word? if (word = "=") if (id is o'~Z') Search Symboltab for id ? but temp = Exp(); and get index; Search symbol tab for word and get wider i of (found) display symbol tab [index]. val; if (found) symbol tab Tinder To val = teny else Somantic error; semantic error: else (expression case) get back one position: syntax evor. call Exp() and display result;