

// Q.3 //

# handle parsing

A handle parsing of a string is a substring that matches the right side of a production, and whose reduction to the nonterminal on the left side of the production represents one step along the reverse of a rightmost derivation.

# Syntax Directed Definition (SDD)  
is a kind of abstract specification  
(ii) it is generalization of Context free grammar in which each grammar production  $x \rightarrow a$  is associated with it a set of production rules of the form  $S = f(b_1, b_2, \dots, b_n)$

Where  $S$  is the attribute obtained from function  $f$ .

(iii) An attribute grammar is a context - directed definition where the semantic rules cannot have side effects. The process of computing the attribute value at the nodes is called annotating tree.

We are now ready to present the yacc input for our simple desk calculator program.