ASSIGNMENT-9

TITLE: RECURSIVE DESCENT PARSER

PROBLEM STATEMENT: RTURY REP

THEORY:

· RECURSIVE DESCENT PARSER:

- It is called so because it builds a parets. Et tree from the top (the start eyulsol) down, from left to right, using an input sequence as a target as it is examed from left to right.

- The actual tree is not constructed is implicit as a sequence of function calls.

· WORKING OF RDP:

- The parcer uses a recursive function to each grammar rule (i.e., corresponding to each non-terminal symbol in the language).

- For einsticity, the name of the non-termin

- For simplicity, the name of the mon-terminal can be used as name of the function the bod of each recursive function mirrore the right side of the justical corresponding rule.

It order for this method to work, one wight in be able to decide which function to call based on next input symbol.

Jos example, given gremmas

3 2+ - 1

```
2.2
Classmate
Classmate
```

```
if (input [i] := ")")

i++;
     error = 1
```