Exercise #6(Batch1)   Dated:14/9/2017

Marks: 10

For the given Context free grammar, write a recursive descent parser using any high level languages to generate the production rules used to derive the valid and invalid strings.
CFG production rules:

$$S \rightarrow \mathbf{i} = \mathbf{E}$$
$$E \rightarrow \mathbf{E + T} \mid \mathbf{T}$$
$$T \rightarrow T * \mathbf{F} \mid \mathbf{F}$$
$$F \rightarrow (E) \mid \mathbf{i}$$

Test case: 1. **i = (i + i) * i**
          2. **i = (i + i) * * i**