

```

1  GRAMMER :
2  E->TU
3  U->+TU|#
4  T->FV
5  V->*FV|#
6  F->(E)|i
7
8  where U stands for E', V stands for T', i stands for Id and # stands for NULL
9
10 Enter the string to be parsed
11
12 i+i**i
13
14
15
16 STACK      INPUT      MESSAAGE
17 $E         i+i**i$
18 $UT        i+i**i$      E->TU
19 $UVF       i+i**i$      T->FV
20 $UVi       i+i**i$      F->i
21 $UV        +i**i$
22 $U         +i**i$      V->#
23 $UT+       +i**i$      U->+TU
24 $UT        i**i$
25 $UVF       i**i$      T->FV
26 $UVi       i**i$      F->i
27 $UV        **i$
28 $UVF*      **i$      V->*FV
29 $UVF       *i$      MISSING OPERAND : add 'i' onto input
30 $UVF       i*i$
31 $UVi       i*i$      F->i
32 $UV        *i$
33 $UVF*      *i$      V->*FV
34 $UVF       i$
35 $UVi       i$      F->i
36 $UV        $
37 $U         $      V->#
38 $          $      U->#
39 PARSED STRING NOT ACCEPTED
40 RECOVERED STRING : i+i*i*i$
41
42

```