```
Program:
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
char ip_sym[50];
int ip ptr=0;
void e();
void e_prime();
void t();
void t_prime();
void f();
void advance();
void e(){
  printf("\nE--->TE'");
  t();
  e_prime();
}
void e_prime(){
  if(ip_sym[ip_ptr]=='+'){
    printf("\nE'--->+TE");
    advance();
    t();
    e_prime();
  }
    printf("\nE'--->e");
void t(){
  printf("\nT--->FT'");
  f();
  t_prime();
}
void t prime(){
  if(ip_sym[ip_ptr]=='*'){
    printf("\nT'--->+FT");
    advance();
    f();
    t_prime();
  }
  else
    printf("\nT'--->e");
}
void f(){
```

if(ip\_sym[ip\_ptr]=='i'||ip\_sym[ip\_ptr]=='d') {

printf("\nF--->id");

advance();

```
}
  else{
  if(ip_sym[ip_ptr]=='('){
    advance();
    e();
    if(ip_sym[ip_ptr]==')'){
      advance();
      printf("\nF--->(E)");
  else{
    printf("\nSyntax Error...");
    getch();
    exit(1);
  }
 }
}
}
void advance(){
  ip_ptr++;
}
void main(){
  clrscr();
  printf("Recursive Descent Parser");
  printf("\nGRAMMER WITHOUT LEFT RECURSION");
  printf("\n\tE--->TE'\n\tE'--->+TE/e\n\tT---FT'\n\tT'-->*FT/e>\n\tF--->(E)/id");
  printf("\n\nEnter the input symbol :");
  gets(ip sym);
  printf("\nSequence of production Rules");
  e();
  getch();
}
```

## Sample Input & Output:

```
Recursive Descent Parser

GRAMMER WITHOUT LEFT RECURSION

E--->TE'

E'--->+TE/e

T---FT'

T'-->*FT/e>

F--->(E)/id

Enter the input symbol :T

Sequence of production Rules
E--->TE'
T--->FT'
T'-->e
E'--->e
```