```
#include<stdio.h>
   #include<ctype.h>
  #include<string.h>
  void Tprime();
  void Eprime();
  void E();
  void check();
  void T();
  char expression[10];
  int count, flag;
  int main()
  {
         count = 0;
         flag = 0;
         printf("\nEnter an Algebraic Expression:\t");
         scanf("%s", expression);
        E();
        if((strlen(expression) == count) && (flag == 0))
                printf("\nThe Expression %s is Valid\n", expression);
        else
               printf("\nThe Expression %s is Invalid\n", expression);
}
void E()
{
       T();
       Eprime();
}
```

```
void T()
       check();
       Tprime();
}
void Tprime()
{
       if(expression[count] = '*')
        {
               count++;
                check();
                Tprime();
         }
 void check()
 {
         if(isalnum(expression[count]))
         {
                count++;
         else if(expression[count] == '(')
                 count++;
                 E();
                 if(expression[count] == ')')
                        count++;
                 else
                         flag = 1;
```

```
else
        {
               flag = 1;
        }
}
void Eprime()
{
       if(expression[count] == '+')
        {
               count++;
               T();
               Eprime();
       }
```