

```

1  #include<stdio.h>
2  int main()
3  {
4      char parenthesis[100];
5      // declaration of char type array
6      int a=0, i=0;
7      // declaration of two integer type variables
8      printf("\nEnter a parenthesis of your choice:");
9      scanf("%s", parenthesis);
10 // Scanning the parenthesis until we reach the end of the expression.
11 while(parenthesis[i] != '\0')
12 {
13     // Condition to check the symbol is '('
14     if(parenthesis[i]=='(')
15     {
16         a++;
17         // incrementing 'a' variable
18     }
19     // condition to check the symbol is ')'
20     else if(parenthesis[i]==')')
21     {
22         a--;
23         // decrementing 'a' variable
24         if(a<0)
25             break;
26     }
27     i++;
28     // incrementing 'i' variable.
29 }
30 // Condition to check whether a is equal to 0 or not.
31 if(a==0)
32 {
33     printf("Good!! The Expression is balanced");
34 }
35
36 else
37 {
38     printf("Sorry the Expression is unbalanced");
39 }
40 return 0;
41 }

```