

```
1  %{
2      #include<stdio.h>
3      int flag=0;
4  %}
5  %token NUMBER
6  %left '+' '-'
7  %left '*' '/' '%'
8  %left '(' ')'
9  %%
10
11 ArithmeticExpression: E{ printf("\nResult = %d\n", $$); return 0; };
12 E : E '+' E {$$=$1+$3;}
13   | E '-' E {$$=$1-$3;}
14   | E '*' E {$$=$1*$3;}
15   | E '/' E {$$=$1/$3;}
16   | E '%' E {$$=$1%$3;}
17   | '(' E ')' {$$=$2;}
18   | NUMBER {$$=$1;}
19   ;
20 %%
21
22 void main()
23 {
24     printf("Kindly enter expression: ");
25     yyparse();
26     if(flag==0)
27         printf("Entered arithmetic expression is Valid\n");
28 }
29
30 void yyerror()
31 {
32     printf("Entered arithmetic expression is Invalid\n");
33     flag=1;
34 }
35
```