POSTFIX EVALUATION USING STACK

Write a program which takes a postfix expression as input of an airthmetic expression and find its value using stack.

#include <stdio.h>

#include <string.h>

int main()

{

char str[5] ,c[5];int i,j=0,a=0,b=0;

printf("Enter the expression: ");

scanf("%s",&str);

for(i=0;i<5;i++)

{

if((str[i]!='+')&&(str[i]!='-')&&(str[i]!='\*')&&(str[i]!='/')) c[j++]=str[i];

else

{

a=c[j]-'0';

b=c[j-1]-'0';

c[j]='\0' ; j--;

if(str[i]=='+') c[j]= (a+b) + '0' ;

if(str[i]=='-') c[j]= (a-b) + '0' ;

if(str[i]=='\*') c[j]= (a\*b) + '0' ;

if(str[i]=='/') c[j]= (a/b) + '0' ;

}

}

printf("The result is %s",c[j]);

}