Code:

// Postfix evaluation of stack

#include<stdio.h>

int stack[5];

int top = -1;

void push(int i)

{

stack[++top] = i;

}

int pop()

{

return stack[top--];

}

int main()

{

char exp[20];

char \*e;

int n1,n2,n3,num;

printf("Enter the postfix expression : \n");

scanf("%s",exp);

e = exp;

while(\*e != '\0')

{

if(isdigit(\*e))

{

num = \*e - 48;

push(num);

}

else

{

n1 = pop();

n2 = pop();

switch(\*e)

{

case '+':

{

n3 = n1 + n2;

break;

}

case '-':

{

n3 = n2 - n1;

break;

}

case '\*':

{

n3 = n1 \* n2;

break;

}

case '/':

{

n3 = n2 / n1;

break;

}

}

push(n3);

}

e++;

}

printf("\nThe result of expression %s = %d\n\n",exp,pop());

return 0;

}

/\* Output :

Enter the postfix expression :

21+4-

The result of expression 21+4- = -1

\*/