**Q. WAP to evaluate a given postfix expression using stacks.**

#include<stdio.h>

#include<ctype.h>

int stack[100], top = -1;

int op1, op2, ans, num, y;

char str[20], \*e;

void push(int ch)

{

top++;

stack[top]=ch;

}

int pop()

{

num=stack[top];

top--;

return(num);

}

void evaluate()

{

switch(\*e)

{

case '+':

{

ans = op1 + op2;

break;

}

case '-':

{

ans = op2 - op1;

break;

}

case '\*':

{

ans = op1 \* op2;

break;

}

case '/':

{

ans = op2 / op1;

break;

}

}

push(ans);

}

int main()

{

do{

printf("\nEnter the expression : ");

scanf("%s",str);

e = str;

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

{

if(isdigit(\*e))

{

num = \*e - 48;

push(num);

}

else

{

op1 = pop();

op2 = pop();

evaluate(op1,op2,ans);

}

e++;

}

printf("\nAnswer = %d",pop());

printf("\nDo you want to continue?(1=Yes/0=No) : ");

scanf("%u",&y);

}

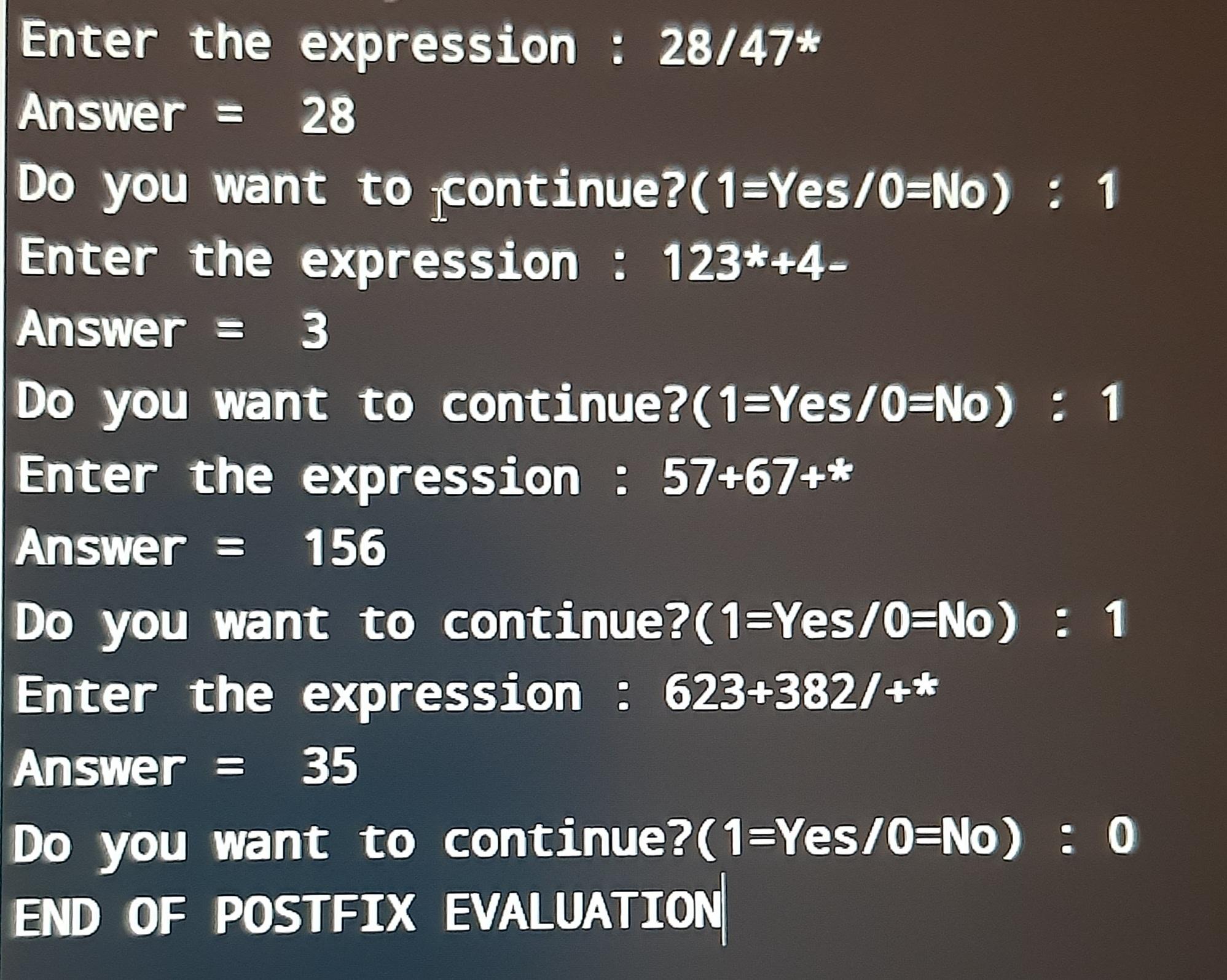
while(y!=0);

printf("\nEND OF POSTFIX EVALUATION");

return 0;

}

**Output :**

****