```
// Write a program to evaluate a given postfix expression using stacks.
#include<stdio.h>
int stack[20];
int top = -1;
void push(int x)
{
  stack[++top] = x;
}
int pop()
{
  return stack[top--];
}
int main()
{
  char exp[20];
  char *e;
  int n1,n2,n3,num;
  printf("Enter the expression :: ");
  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:

```
C:\TURBOC3\BIN\TC C:\TURBOC3\Projects\program2.c
Enter the expression :: 249**

The result of expression 249** = 26
```