```c
1: #include <stdio.h>
2: #include <stdlib.h>
3:
4: /* run this program using the console pauser
5: int getOp(void);
6:
7: int input;
8: int inputType;
9: int stack[50];
10: int sp=0;
11:
12: void putInStack(char  op[]);
13: void add(void);
14:
15: int main(int argc, char *argv[]) {
16: //  int input;
17:     printf("RPN Calc statred\n");
18: //  inputType=getOp();
19:     while((inputType=getOp())!=EOF){
20:         switch(inputType){
21:             case 1:
22:                 putInStack(atoi(input));
23:                 break;
24:             case '+':
25:                 add();
26:                 break;
27:             case '=':
28:                 printf("result = %d\n",pop());
29:                 break;
30:             case '\n':
31:                 printf("new line\n");
32:                 break;
33:             default:
```

```c
34:                     printf("invalid command\n");
35:                     break;
36:         }
37: //  inputType=getOp();
38:     }
39:     return 0;
40: }
41:
42: int getOp(){
43:     printf("getOp executed\n");
44:     input[0] = getchar();
45:     if(isdigit(input))
46:         return 1;
47:     else
48:         return input[0];
49: }
50:
51: void putInStack(int op){
52:     printf("putInStack executed\n");
53:     push(op);
54: }
55:
56: void push(int op){
57:     stack[sp++]=op;
58:     printf("push %d\n",op);
59: //  sp++;
60: }
61:
62: int pop(void){
63: //  sp--;
64:     return stack[--sp];
65: }
66: void add(){
```

```c
67:        printf("add executed\n");
68: //  int op1, op2;
69: //  op1=pop();
70: //  op2=pop();
71: //  push(op1+op2);
72:        push(pop()+pop());
73: }
74:
75:
```