



```
exp 18.cpp
1  #include<stdio.h>
2  #include<conio.h>
3  #include<string.h>
4  int main()
5  {
6      int n,i,j;
7      char a[50][50];
8      printf("enter the no: intermediate code:");
9      scanf("%d",&n);
10     for(i=0;i<n;i++)
11     {
12         printf("enter the 3 address code:%d:",i+1);
13         for(j=0;j<6;j++)
14         {
15             scanf("%c",&a[i][j]);
16         }
17     }
18     printf("the generated code is:");
19     for(i=0;i<n;i++)
20     {
21         printf("\n mov %c,%d",a[i][3],i);
22         if(a[i][4]=='-')
23         {
24             printf("\n sub %c,%d",a[i][5],i);
25         }
26         if(a[i][4]=='+')
27         {
28             printf("\n add %c,%d",a[i][5],i);
29         }
30         if(a[i][4]=='*')
31         {
32             printf("\n mul %c,%d",a[i][5],i);
33         }
34     }
35 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\swaro\OneDrive\Documents\exp 18.exe
- Output Size: 130.2734375 KiB
- Compilation Time: 0.25s

C:\Users\swaro\OneDrive\Documents\exp 18.cpp - [Executing] - Dev-C++ 5.11

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(globals)

exp 18.cpp

```
12 printf("enter the 3 address code:%d:",i+1);
13 for(j=0;j<6;j++)
14 {
15     scanf("%c",&a[i][j]);
16 }
17
18 printf("the generated code is:");
19 for(i=0;i<n;i++)
20 {
21     printf("\n mov %c,R%d",a[i][3],i);
22     if(a[i][4]=='-')
23     {
24         printf("\n sub %c,R%d",a[i][5],i);
25     }
26     if(a[i][4]=='+')
27     {
28         printf("\n add %c,R%d",a[i][5],i);
29     }
30     if(a[i][4]=='*')
31     {
32         printf("\n mul %c,R%d",a[i][5],i);
33     }
34     if(a[i][4]=='/')
35     {
36         printf("\n div %c,R%d",a[i][5],i);
37     }
38     printf("\n mov R%d,%c",i,a[i][1]);
39     printf("\n");
40 }
41 return 0;
42 }
43
```

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Compilation results...

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- Warnings: 0
- Output Filename: C:\Users\swaro\OneDrive\Documents\exp 18.exe
- Output Size: 130.2734375 KiB
- Compilation Time: 0.25s

Line: 43 Col: 1 Sel: 0 Lines: 43 Length: 747 Insert Done parsing in 0.219 seconds

32°C Mostly sunny

Search

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```
enter the no: intermediate code:2
enter the 3 address code:1:a=b+c
enter the 3 address code:2:d=n*d
the generated code is:
mov b,R0
add c,R0
mov R0,a
```

```
mov n,R1
mul d,R1
mov R1,d
```

```
-----
Process exited after 26.49 seconds with return value 0
Press any key to continue . . . |
```