

3 ADDRESS CODE

```
#include<stdio.h>

#include<ctype.h>

char op[2],arg1[5],arg2[5],result[5];

void main()

{

FILE *fp1,*fp2;

fp1=fopen("input.txt","r");

fp2=fopen("output.txt","w");

while(!feof(fp1))

{

fscanf(fp1,"%s%s%s%s",result,arg1,op,arg2);

if(strcmp(op,"+")==0)

{

fprintf(fp2,"\n MOV R0,%s",arg1);

fprintf(fp2,"\n ADD R0,%s",arg2);

fprintf(fp2,"\n MOV %s,R0",result);

}

if(strcmp(op,"*")==0)

{

fprintf(fp2,"\n MOV R0,%s",arg1);

fprintf(fp2,"\n MUL R0,%s",arg2);

fprintf(fp2,"\n MOV %s,R0",result);

}

if(strcmp(op,"-")==0)

{

fprintf(fp2,"\n MOV R0,%s",arg1);

fprintf(fp2,"\n SUB R0,%s",arg2);

fprintf(fp2,"\n MOV %s,R0",result);

}
```

```
if(strcmp(op,"/")==0)
{
fprintf(fp2,"\n MOV R0,%s",arg1);
fprintf(fp2,"\n DIV R0,%s",arg2);
fprintf(fp2,"\n MOV
%s,R0",result);
}
if(strcmp(op,"")==0)
{
fprintf(fp2,"\n MOV R0,%s",arg1);
fprintf(fp2,"\n MOV
%s,R0",result);
}
}
fclose(fp1
);
fclose(fp2
);
}
```