**EXPERIMENT NO. 10**

**AIM:** To implement Intermediate Code Generation.

# Program:

#include<stdio.h>

#include<conio.h> #include<string.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",op,arg1,arg2,result); if(strcmp(op,"+")==0)

{

fprintf(fp2,"\nMOV R0,%s",arg1); fprintf(fp2,"\nADD R0,%s",arg2);

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

}

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

{

fprintf(fp2,"\nMOV R0,%s",arg1); fprintf(fp2,"\nMUL R0,%s",arg2);

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

}

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

{

fprintf(fp2,"\nMOV R0,%s",arg1); fprintf(fp2,"\nSUB R0,%s",arg2);

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

}

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

{

fprintf(fp2,"\nMOV R0,%s",arg1); fprintf(fp2,"\nDIV R0,%s",arg2);

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

}

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

{

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

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

}

} fclose(fp1); fclose(fp2);

getch();

}

# Output:

