**EX-4:**

**PROGRAM:**

#include<stdio.h>

#include<string.h>

#include<ctype.h>

#include <stdlib.h>

int num(char \*temp)

{

int i=0,flag=0;

for(i=0;i<strlen(temp);i++)

{

if(!isdigit(temp[i]))

{

flag=1;

break;

}

}

if(flag == 0)

return 1;

else

return 0;

}

int main()

{

int i=0,j,flag=0,k=0,m=0;

float res;

char read[100],\*token,\*temp,\*a,\*b;

char arr[100][100],arr1[100][100];

FILE \*fp;

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

while(fgets(read,100,fp) != NULL) {

token = strtok(read,"=");

temp = strtok(NULL,"=");

temp = strtok(temp,";");

if(strstr(temp,"+")) {

a = strtok(temp,"+");

b = strtok(NULL,"+");

if(num(a) && num(b)) {

res = atoi(a) + atoi(b);

printf("%s=%.2f;\n",token,res);

}

else

printf("%s=%s+%s;\n",token,a,b);

}

else if(strstr(temp,"-")) {

a = strtok(temp,"-");

b = strtok(NULL,"-");

if(num(a) && num(b)) {

res = atoi(a) - atoi(b);

printf("%s=%.2f;\n",token,res);

}

else

printf("%s=%s-%s;\n",token,a,b);

}

else if(strstr(temp,"\*")) {

a = strtok(temp,"\*");

b = strtok(NULL,"\*");

if(num(a) && num(b)) {

res = atoi(a) \* atoi(b);

printf("%s=%.2f;\n",token,res);

}

else

printf("%s=%s\*%s;\n",token,a,b);

}

else if(strstr(temp,"/")) {

a = strtok(temp,"/");

b = strtok(NULL,"/");

if(num(a) && num(b)) {

res = atoi(a) / atoi(b);

printf("%s=%.2f;\n",token,res);

}

else

printf("%s=%s/%s;\n",token,a,b);

}

else

printf("%s=%s;\n",token,temp);

}

close(fp);

return 0;

}

**INPUT.TXT:**

v=14+21;

i=22-13;

s=14\*18;

h=360/30;

**OUTPUT:**

Z:\Computation\programs\5A>gcc Ex5a.c

Z:\Computation\programs\5A>a.exe

v=35.00;

i=9.00;

s=252.00;

h=12.00;