# Program

```c
#include<stdio.h>
#include<stdlib.h>
#include<string.h>
#include<ctype.h>
int isKeyword(char buffer[]){
char keywords[32][10]={"auto","break","case","char","const","continue","default",
                       "do","double","else","enum","extern","float","for","goto",
                       "if","int","long","register","return","short","signed","sizeof",
                       "static","struct","switch","typedef","union","unsigned","void",
                       "volatile","while"};
int i,flag=0;
for(i=0;i<32;i++)
{
        if(strcmp(keywords[i],buffer)==0)
        {
        flag=1;
        break;
        }
}
return flag;
}
int main()
{
        char ch,buffer[15],operators[]="+-*/%=";
        FILE *fp;
        int i,j=0;
        fp=fopen("program.txt","r");
        if(fp==NULL)
        {
        printf("Error while opening file");
        exit(0);
        }
         while((ch=fgetc(fp))!=EOF)
        {
        for(i=0;i<6;i++)
        {
        if(ch==operators[i])
        printf("\n%c is a operator",ch);
        }
        if(isalnum(ch))
        {
                buffer[j++]=ch;
        }
        else if((ch==' '||ch=='\n')&&(j!=0))
        {
        buffer[j]='\0';
        j=0;
        if(isKeyword(buffer)==1)
        printf("%s is keyword \n",buffer);
```

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            else
            printf("%s is Identifier \n",buffer);
}
}
            fclose(fp);
return 0;
}
```
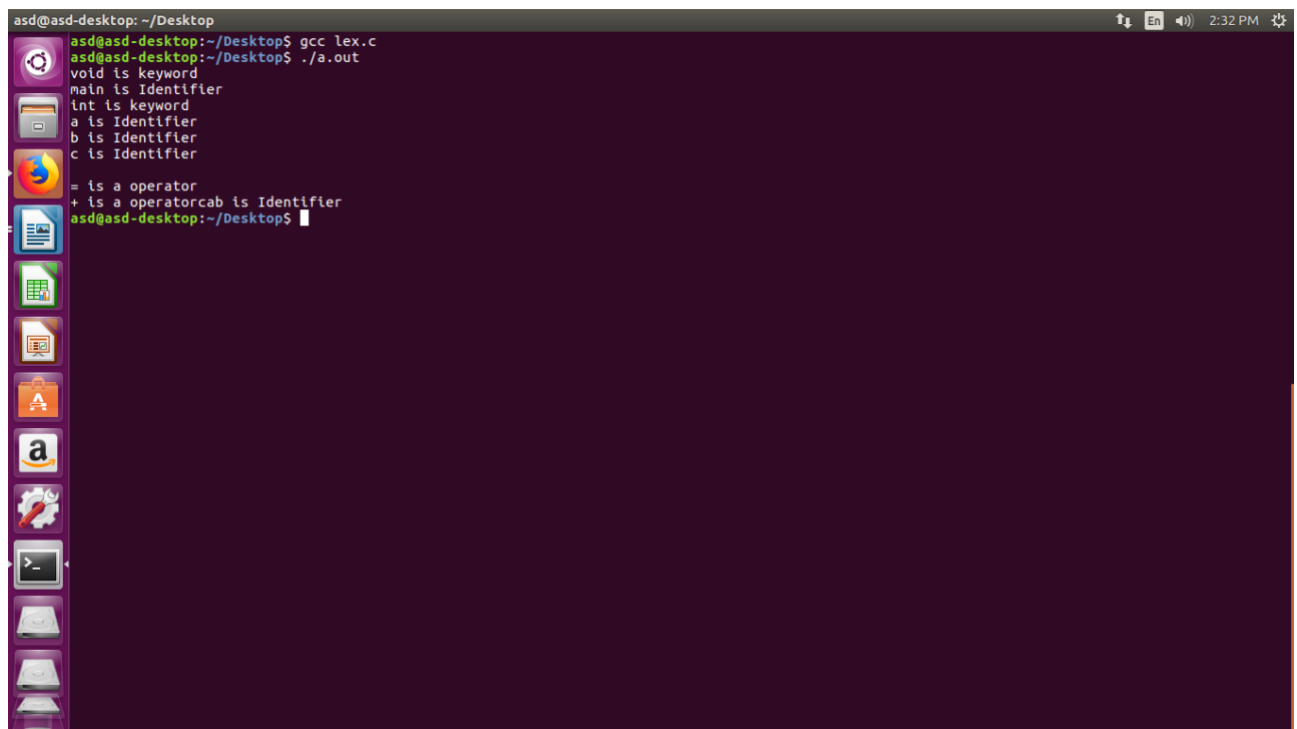
# Input

program.txt

```
void main()
{
int a ,b ,c ;
c=a+b;
}
```

# Output