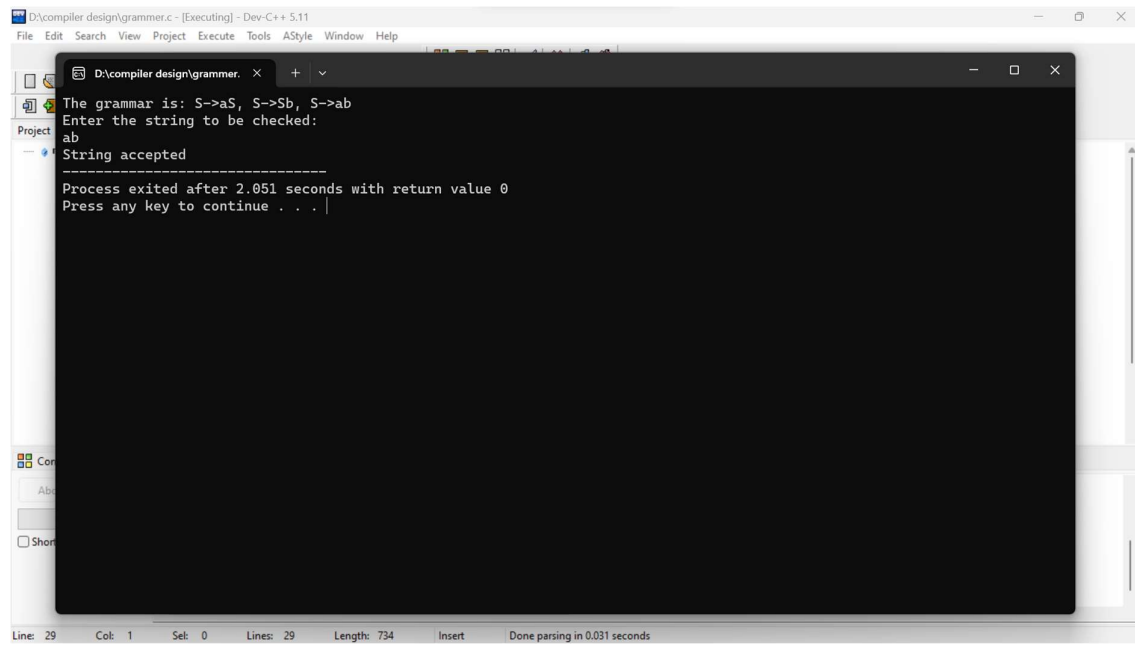9. All languages have Grammar. When people frame a sentence we usually say whether the sentence is framed as per the rules of the Grammar or Not. Similarly use the same ideology , implement to check whether the given input string is satisfying the grammar or not .

```c
#include<stdio.h>
#include<conio.h>
#include<string.h>
int main() {
        char string[50];
        int flag,count=0;
        printf("The grammar is: S->aS, S->Sb, S->ab\n");
        printf("Enter the string to be checked:\n");
        gets(string);
        if(string[0]=='a') {
                flag=0;
                for (count=1;string[count-1]!='\0';count++) {
                        if(string[count]=='b') {
                                flag=1;
                                continue;
                        } else if((flag==1)&&(string[count]=='a')) {
                                printf("The string does not belong to the specified grammar");
                                break;
                        } else if(string[count]=='a')
                        continue; else if((flag==1)&&(string[count]='\0')) {
                                printf("String not accepted…..!!!!");
                                break;
                        } else {
                                printf("String accepted");
                        }
                }
        }
}
```

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

```
The grammar is: S->aS, S->Sb, S->ab
Enter the string to be checked:
ab
String accepted
--------------------------------
Process exited after 2.051 seconds with return value 0
Press any key to continue . . .
```

Line: 29   Col: 1   Sel: 0   Lines: 29   Length: 734   Insert   Done parsing in 0.031 seconds