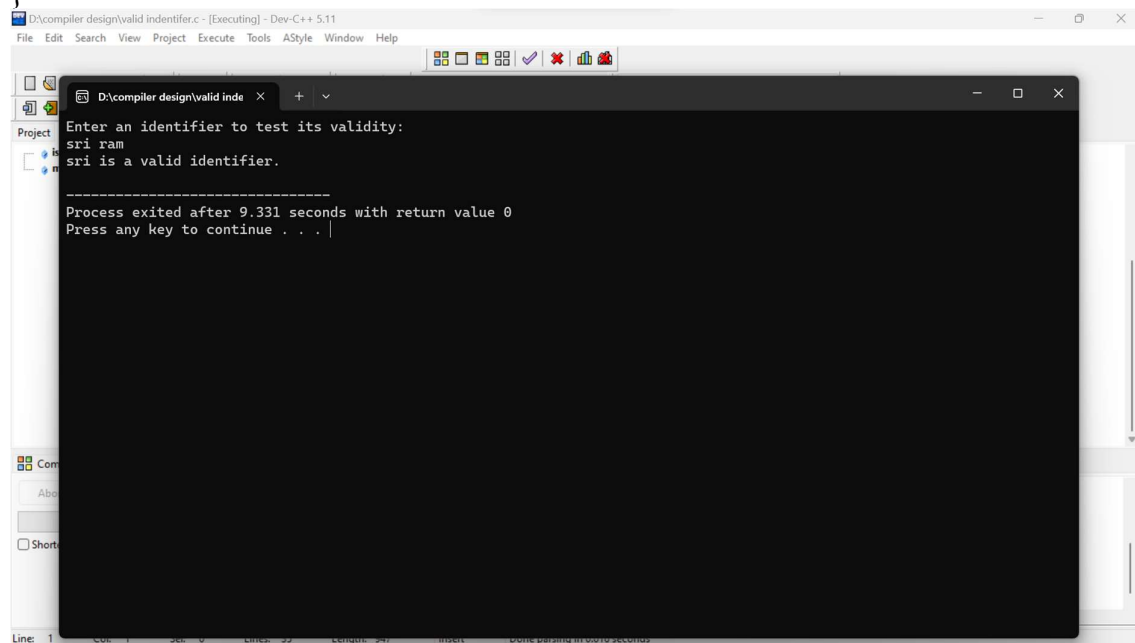


5. Develop a lexical Analyzer to test whether a given identifier is valid or not.

```
#include<stdio.h>
#include<conio.h>
#include<ctype.h>
int main()
{
    char a[10];
    int flag, i=1;
    printf("\n Enter an identifier:");
    gets(a);
    if(isalpha(a[0]))
        flag=1;
    else
    {
        while(a[i]!='\0')
        {
            if(!isdigit(a[i])&&!isalpha(a[i]))
            {
                flag=0;
                break;
            } i++;
        }
    }
    if(flag==1)
        printf("\n Valid identifier");
    else
        printf("invalid");
}
```



The screenshot shows a C++ IDE window titled "D:\compiler design\valid identifier.c - [Executing] - Dev-C++ 5.11". The IDE has a menu bar (File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help) and a toolbar. The main editor area displays the C++ code from the previous block. Below the editor, a console window is open, showing the program's execution. The console output is as follows:

```
Enter an identifier to test its validity:
sri ram
sri is a valid identifier.

-----
Process exited after 9.331 seconds with return value 0
Press any key to continue . . .
```

The status bar at the bottom of the IDE shows "Line: 1", "Col: 1", "Sel: 0", "Line: 29", "Length: 240", "ansi", and "Code parsing in 0.010 seconds".