### Sample.c

```
/*
This is sample.c
*/
#include<stdio.h>

//This is a single line comment.

void fun()
{
    //Inside Fun
    printf("Hello Fun ism2k10");
}

//Driver Function
int main()
{
    printf("Hello world");
    fun();//Calling fun
    return 0;
}
```

Q9. WAP in lex to identify and display valid identifiers in a C program.

```
%{
    #include<stdio.h> intsm2k16
    int count=1;
%}
%%
\n {count++;}
void {printf("Void Found at line %d .\n",count);}
. {}
%%
int yywrap()
{
    return 1;
}
int main()
{
    yylex();
    return 0;
}
```

### **OUTPUT:**

```
imkiller@imkiller:~
imkiller@imkiller:~$ lex 1.c
imkiller@imkiller:~$ gcc lex.yy.c
imkiller@imkiller:~$ ./a.out < sample.c
Void Found at line 8 .
imkiller@imkiller:~$</pre>
```

Be Updated!

# Q10. WAP in lex for identifying and priniting operators, keywords, identifiers and seprators.

```
%{
     #include<stdio.h>
     int count=1:
%}
%%
auto|double|int|struct|break|else|long|switch|case|enum|register|typedef|char|extern|return|union|continue|for|signed|void|do|if|static|w
hile|default|goto|size of|volatile|const|float|short|unsigned \\ \{printf("Keyword found at line no. \\ \%d\n",count);\}
n \{count++;\}
[{};,()] {printf("Seprator found at line no. %d\n",count);}
[+-/*=%] {printf("Operator Found at line no. %d\n",count);}
([a-zA-Z][0-9])+|[a-zA-Z]* {printf("Identifier Found at line no. %d\n",count);}
. {}
%%
int yywrap()
     return 1;
int main()
{
     yylex();
     return 0;
OUTPUT:
```

```
@ imkiller@imkiller: ~
        nkiller@imkiller:~$ lex 2.c
nkiller@imkiller:~$ gcc lex.yy.c
nkiller@imkiller:~$ ./a.out < sample.c
    Operator Found at line no. 1
Operator Found at line no. 1
 Identifier Found at line no. 2
Identifier Found at line no. 2
 Identifier Found at line no.
Operator Found at line no. 2
  Identifier Found at line no.
Operator Found at line no. 3
Operator Found at line no. 3
   Identifier Found at line no. 4
Identifier Found at line no. 4
Operator Found at line no. 4
   Identifier Found at line no.
Operator Found at line no. 6
Operator Found at line no. 6
Operator Found at line no. 6
Identifier Found at line no. 6
Operator Found at line no. 6
Keyword found at line no. 8
Identifier Found at line no. 8
Identifier Found at line no. 8
 Keyword found at line no. 8
Identifier Found at line no. 8
Seprator found at line no. 8
Seprator found at line no. 8
Seprator found at line no. 9
Operator Found at line no. 10
Operator Found at line no. 10
Operator Found at line no. 10
Identifier Found at line no. 10
Identifier Found at line no. 10
Identifier Found at line no. 11
Seprator found at line no. 11
Identifier Found at line no. 11
Identifier Found at line no. 11
Seprator found at line no. 11
Seprator found at line no. 11
Seprator found at line no. 12
Operator Found at line no. 14
Operator Found at line no. 14
                rator Found at line no. 14
       dentifier Found at line no. 14
```

## Q11. WAP in lex to remove the comments in a C program.

```
%{
    #include<stdio.h>
%}

%%

\\\.* {}
\\*(.*\n)*.*\*\ {}
%%

int yywrap()
{
    return 1;
}
int main()
{
    yyin=fopen("sample.c","r");
    yyout=fopen("Output.c","w");
    yylex();
    return 0;
}
```

## **OUTPUT:**

```
imkiller@imkiller:~
imkiller@imkiller:~$ lex 3.c
imkiller@imkiller:~$ gcc lex.yy.c
imkiller@imkiller:~$ ./a.out
imkiller@imkiller:~$ cat Output.c

#include<stdio.h>

void fun()
{
    printf("Hello Fun");
}
int main()
{
    printf("Hello world");
    fun();
    return 0;
}
imkiller@imkiller:~$
```

Be Updated!