

```

%{
    #include<stdio.h>

    int a,b;

}%

letter [A-Za-z]
digit [0-9]
keyword if|else|do|while|int
identifier {letter}{letter}{digit}*
relational_op "<"|">"|"<="|">="|"<>"
arithmetic_op "+"|"-"|"*"|"|"
single_line_comment "//".*
multi_line_comment "/*".**/"

%%

{keyword} {printf("Keyword %s is found",yytext);}
{identifier} {printf("Identifier %s is found",yytext);}
{letter} {printf("Letter %s is found",yytext);}
{digit} {printf("Digit %s is found",yytext);}
{relational_op} {printf("Relational operator %s is found",yytext);}
{arithmetic_op} {printf("Arithmetic operator %s is found",yytext);}
{single_line_comment} {printf("Single line comment is found");}
{multi_line_comment} {printf("Multi line comment is found");}

%%

```



```
int main()
{
    yylex();
}
int yywrap()
{
    return 1;
}
```

```
#include <stdio.h>
```

```
int main() {
```

```
    int num1, num2, sum;
```

```
    printf("Enter two integers: ");
```

```
    scanf("%d %d", &num1, &num2);
```

```
    // calculating sum
```

```
    sum = num1 + num2;
```

```
    printf("%d + %d = %d", num1, num2, sum);
```

```
    return 0;
```

```
}
```



student@student-Veriton-M200-H61:~\$ lex rn12.l  
student@student-Veriton-M200-H61:~\$ cc lex.yy.c  
student@student-Veriton-M200-H61:~\$ ./a.out <rn12.c  
Punctuation mark # is found



Edit with WPS Office

Identifier include is found

Relational operator < is found

Identifier stdio is found

.Identifier h is found

Relational operator > is found

Keyword int is found

Keyword main is found

Punctuation mark ( is found

Punctuation mark ) is found

Punctuation mark { is found

Keyword int is found

Identifier num1 is found

Punctuation mark , is found

Identifier num2 is found

Punctuation mark , is found

Identifier sum is found

Punctuation mark ; is found

Identifier printf is found

Punctuation mark ( is found

Literal "Enter two integers: " is found



Punctuation mark ) is found

Punctuation mark ; is found

Identifier scanf is found

Punctuation mark ( is found

Literal "%d %d" is found

Punctuation mark , is found

&Identifier num1 is found

Punctuation mark , is found

&Identifier num2 is found

Punctuation mark ) is found

Punctuation mark ; is found

Single line comment // calculating sum is found

Identifier sum is found

= Identifier num1 is found

Arithmetic operator + is found

Identifier num2 is found

Punctuation mark ; is found

Identifier printf is found

Punctuation mark ( is found



Literal "%d + %d = %d" is found

Punctuation mark , is found

Identifier num1 is found

Punctuation mark , is found

Identifier num2 is found

Punctuation mark , is found

Identifier sum is found

Punctuation mark ) is found

Punctuation mark ; is found

Keyword return is found

Number 0 is found

Punctuation mark ; is found

Punctuation mark } is found

