

## Practical -3 test cases

Test case 1:

File1.c:

```
int main() {

    int a = 5, 7H;

    // assign value

    char b = 'x';

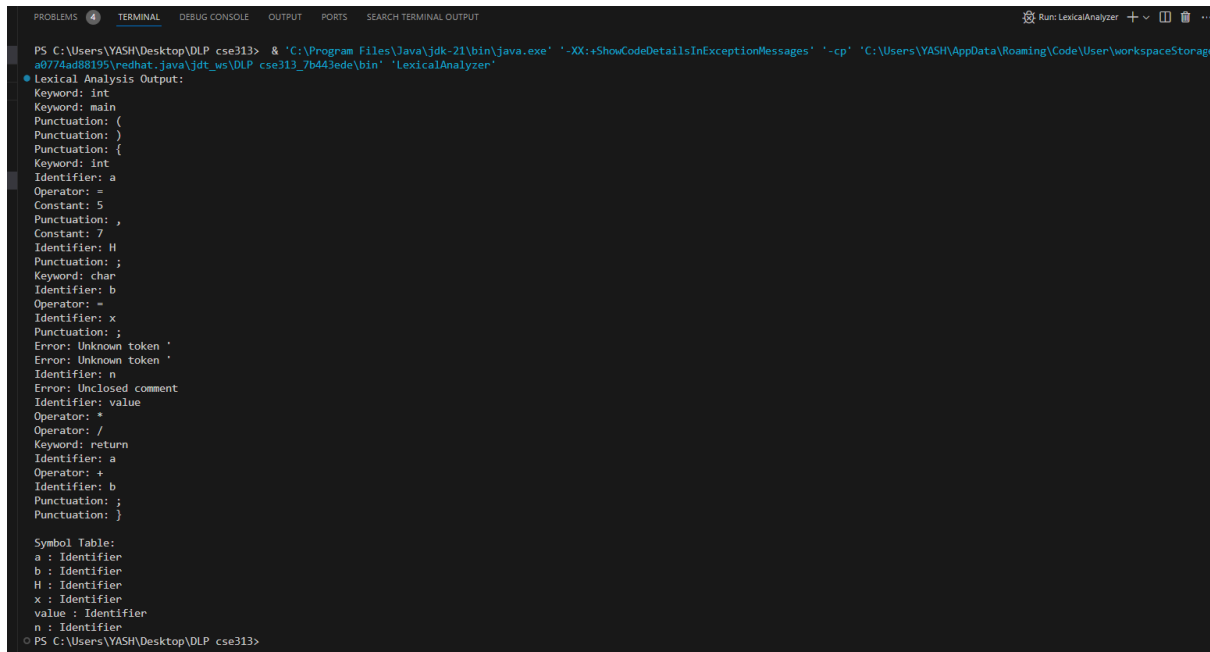
    /* return

    value */

    return a + b;

}
```

Output:



```
PS C:\Users\YASH\Desktop\DLP cse313> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\YASH\AppData\Roaming\Code\User\workspaceStorage\
a0774ad88195\redhat.java\jdt_ws\DLP cse313_7b443ede\bin' 'LexicalAnalyzer'
Lexical Analysis Output:
Keyword: int
Keywords: main
Punctuation: (
Punctuation: )
Punctuation: {
Keyword: int
Identifier: a
Operator: =
Constant: 5
Punctuation: ,
Constant: 7
Identifier: H
Punctuation: ;
Keyword: char
Identifier: b
Operator: =
Identifier: x
Punctuation: ;
Error: Unknown token '
Error: Unknown token '
Identifier: n
Error: Unclosed comment
Identifier: value
Operator: *
Operator: /
Keywords: return
Identifiers: a
Operator: +
Identifier: b
Punctuation: ;
Punctuation: }

Symbol Table:
a : Identifier
b : Identifier
H : Identifier
x : Identifier
value : Identifier
n : Identifier
PS C:\Users\YASH\Desktop\DLP cse313>
```

Test case -2

File2.c:

```
/* salary calculation*/  
void main( ) {  
    long int bs , da , hra , gs;  
    //take basic salary as input  
    scanf("%ld",&bs);  
    //calculate allowances  
    da=bs*.40;  
    hra=bs*.20;  
    gs=bs+da+hra;  
    // display salary slip  
    printf("\n\nbs : %ld",bs);  
    printf("\nda : %ld",da);  
    printf("\nhra : %ld",hra);  
    printf("\ngs : %ld",gs);  
}
```

Output:

```
PS C:\Users\YASH\Desktop\DLP cse313> c::; cd 'c:\Users\YASH\Desktop\DLP cse313'; & 'C:\Program Files\Java\jdk-21\bin\jav
\AppData\Roaming\Code\User\workspaceStorage\cd61bebc88762841ddb0774ad88195\redhat.java\jdt_ws\DLP cse313_7b443ede\bin'
Lexical Analysis Output:
Keyword: void
Keyword: main
Punctuation: (
Punctuation: )
Punctuation: {
Identifier: long
Keyword: int
Identifier: bs
Punctuation: ,
Identifier: da
Punctuation: ,
Identifier: hra
Punctuation: ,
Identifier: gs
Punctuation: ;
Keyword: scanf
Punctuation: (
String: "%ld"
Punctuation: ,
Operator: &
Identifier: bs
Punctuation: )
Punctuation: ;
Identifier: da
Operator: =
Identifier: bs
Operator: *
Constant: 40
Punctuation: ;
Error: Unknown token .
Identifier: hra
Operator: =
Identifier: bs
Operator: *
Constant: 20
Punctuation: ;
Error: Unknown token .
Identifier: gs
```

```

Error: Unknown token .
Identifier: gs
Operator: =
Identifier: bs
Operator: +
Identifier: da
Operator: +
Identifier: hra
Punctuation: ;
Keyword: printf
Punctuation: (
String: "\n\nbs : %ld"
Punctuation: ,
Identifier: bs
Punctuation: )
Punctuation: ;
Keyword: printf
Punctuation: (
String: "\nda : %ld"
Punctuation: ,
Identifier: da
Punctuation: )
Punctuation: ;
Keyword: printf
Punctuation: (
String: "\nhra : %ld"
Punctuation: ,
Identifier: hra
Punctuation: )
Punctuation: ;
Keyword: printf
Punctuation: (
String: "\ngs : %ld"
Punctuation: ,
Identifier: gs
Punctuation: )
Punctuation: ;
Punctuation: }

Symbol Table:
bs : Identifier
hra : Identifier
gs : Identifier
da : Identifier
long : Identifier
PS C:\Users\YASH\Desktop\DLP cse313>

```

Test case-3

File3.c

//function prototype

void add ( int , int );

void main( )

{

int a , b;

a = 10;

b = 20;

```
// function call
add ( a , b );
}
void add ( int x , int y )
{
return x + y;
}
```

Output:

```

PS C:\Users\YASH\Desktop\DLP cse313> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetails
88195\redhat.java\jdt_ws\DLP cse313_7b443ede\bin' 'LexicalAnalyzer'
Lexical Analysis Output:
Keyword: void
Identifier: add
Punctuation: (
Keyword: int
Punctuation: ,
Keyword: int
Punctuation: )
Punctuation: ;
Keyword: void
Keyword: main
Punctuation: (
Punctuation: )
Punctuation: {
Keyword: int
Identifier: a
Punctuation: ,
Identifier: b
Punctuation: ;
Identifier: a
Operator: =
Constant: 10
Punctuation: ;
Identifier: b
Operator: =
Constant: 20
Punctuation: ;
Identifier: add
Punctuation: (
Identifier: a
Punctuation: ,
Identifier: b
Punctuation: )
Punctuation: ;
Punctuation: }
Keyword: void
Identifier: add
Punctuation: (
Keyword: int
Identifier: x
Punctuation: ,
Keyword: int
Identifier: y
Punctuation: )
Punctuation: {
Keyword: return
Identifier: x
Operator: +
Identifier: y
Punctuation: )
Punctuation: {
Keyword: return
Identifier: x
Operator: +
Identifier: y
Punctuation: ;
Punctuation: }

```

```

Symbol Table:
add : Identifier
a : Identifier
b : Identifier
x : Identifier
y : Identifier
PS C:\Users\YASH\Desktop\DLP cse313>

```