



Academic Year: 2024-25

Semester: VI

Class : TE (Div-A)

Subject: SPCCL

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Experiment 7

Aim: Use of tool LEX AND YACC

Code:

test1.l

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

```
LETTER [a-zA-Z]
```

```
DIGIT [0-9]
```

```
%%
```

```
begin    { printf("Recognized Keyword: %s\n", yytext); }  
if       { printf("Recognized Keyword: %s\n", yytext); }  
{DIGIT}+ { printf("Recognized Number: %s\n", yytext); }  
[+|-*/]  { printf("Recognized Operator: %s\n", yytext); }  
[;,]     { printf("Recognized Punctuation: %s\n", yytext); }  
{LETTER}({LETTER}|{DIGIT})* { printf("Recognized ID:  
%s\n", yytext); }  
%%
```

```
int main() {  
    yylex();  
    return 0;  
}
```

input.txt

begin

if

myVariable123

3 + 5 * 2

Output:

```
apsit@apsit-HP-Pro-Tower-280-G9-E-PCI-Desktop-PC:~/Desktop/18$ echo -e "begin\nif\nmyVariable123\n3 + 5 * 2" | ./a.out
Recognized Keyword: begin

Recognized Keyword: if

Recognized ID: myVariable123

3 + 5 * 2
apsit@apsit-HP-Pro-Tower-280-G9-E-PCI-Desktop-PC:~/Desktop/18$
```

Conclusion: - Able to generate lexical analyzer using flex tool.