

CD LAB 3 & 4

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SEC : A

LAB 3 prog1

```
C:\Windows\System32\cmd.exe
C:\GnuWin32\bin\PES2UG20CS045_lab3>flex lexer.l
C:\GnuWin32\bin\PES2UG20CS045_lab3>bison -dy parser.y
parser.y: warning: 1 nonterminal useless in grammar
parser.y: warning: 2 rules useless in grammar
parser.y:128.1-4: warning: nonterminal useless in grammar: COND
parser.y:128.8-11: warning: rule useless in grammar: COND: EXPR
parser.y:129.10-14: warning: rule useless in grammar: COND: ASSGN
C:\GnuWin32\bin\PES2UG20CS045_lab3>gcc lex.yy.c y.tab.c
lexer.l: In function 'yylex':
lexer.l:32:9: warning: implicit declaration of function 'strdup' [-Wimplicit-function-declaration]
  \".*\" {yylval=strdup(yytext); return T_STRLITERAL; }
      ^~~~~~
lexer.l:32:9: warning: incompatible implicit declaration of built-in function 'strdup'
lexer.l:52:11: warning: incompatible implicit declaration of built-in function 'strdup'
  yyval=strdup(yytext); //stores the value of the number to be used later for symbol table insertion
      ^~~~~~
lexer.l:57:11: warning: incompatible implicit declaration of built-in function 'strdup'
  yyval=strdup(yytext); //stores the identifier to be used later for symbol table insertion
      ^~~~~~
C:\GnuWin32\bin\PES2UG20CS045_lab3>a.exe<sample_input1.c>PES2UG20CS045_lab3.txt
C:\GnuWin32\bin\PES2UG20CS045_lab3>
```

PES2UG20CS045_lab3 - Notepad

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Valid syntax

Name	size	type	lineno	scope	value
a	2	2	3	1	~
b	4	3	4	1	~
c	8	4	5	1	~
d	1	1	6	1	~

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LAB 4 prog1

```
C:\Windows\System32\cmd.exe

C:\GnuWin32\bin\PES2UG20CS045_lab4>flex lexer.l

C:\GnuWin32\bin\PES2UG20CS045_lab4>bison -dy parser.y
parser.y: warning: 1 nonterminal useless in grammar
parser.y: warning: 2 rules useless in grammar
parser.y:226.1-4: warning: nonterminal useless in grammar: COND
parser.y:226.8-11: warning: rule useless in grammar: COND: EXPR
parser.y:227.10-14: warning: rule useless in grammar: COND: ASSGN

C:\GnuWin32\bin\PES2UG20CS045_lab4>gcc lex.yy.c y.tab.c
lexer.l: In function 'yylex':
lexer.l:32:9: warning: implicit declaration of function 'strdup' [-Wimplicit-function-declaration]
  \".*\\" {yylval=strdup(yytext); return T_STRLITERAL; }
      ^~~~~~
lexer.l:32:9: warning: incompatible implicit declaration of built-in function 'strdup'
lexer.l:52:11: warning: incompatible implicit declaration of built-in function 'strdup'
  yyval=strdup(yytext); //stores the value of the number to be used later for symbol table insertion
      ^~~~~~
lexer.l:57:11: warning: incompatible implicit declaration of built-in function 'strdup'
  yyval=strdup(yytext); //stores the identifier to be used later for symbol table insertion
      ^~~~~~

C:\GnuWin32\bin\PES2UG20CS045_lab4>a.exe<sample_input1.c>PES2UG20CS045_lab4.txt

C:\GnuWin32\bin\PES2UG20CS045_lab4>
```

```
PES2UG20CS045_lab4 - Notepad
File Edit Format View Help
Variable b already declared
Error :b at 8
Valid syntax

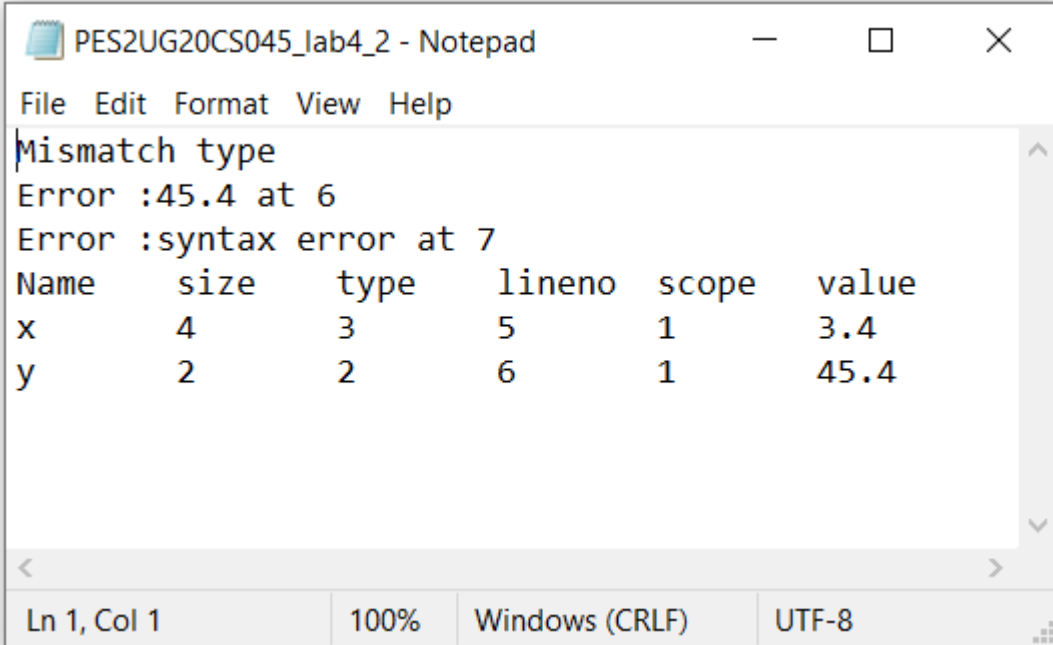
```

Name	size	type	lineno	scope	value
a	2	2	7	1	2
b	4	3	4	1	4.6
c	4	3	5	1	6.9845
d	1	1	6	1	"c"

```
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```

LAB 4 prog2

```
C:\GnuWin32\bin\PES2UG20CS045_lab4>a.exe<sample_input2.c>PES2UG20CS045_lab4_2.txt  
C:\GnuWin32\bin\PES2UG20CS045_lab4>
```



PES2UG20CS045_lab4_2 - Notepad

File Edit Format View Help

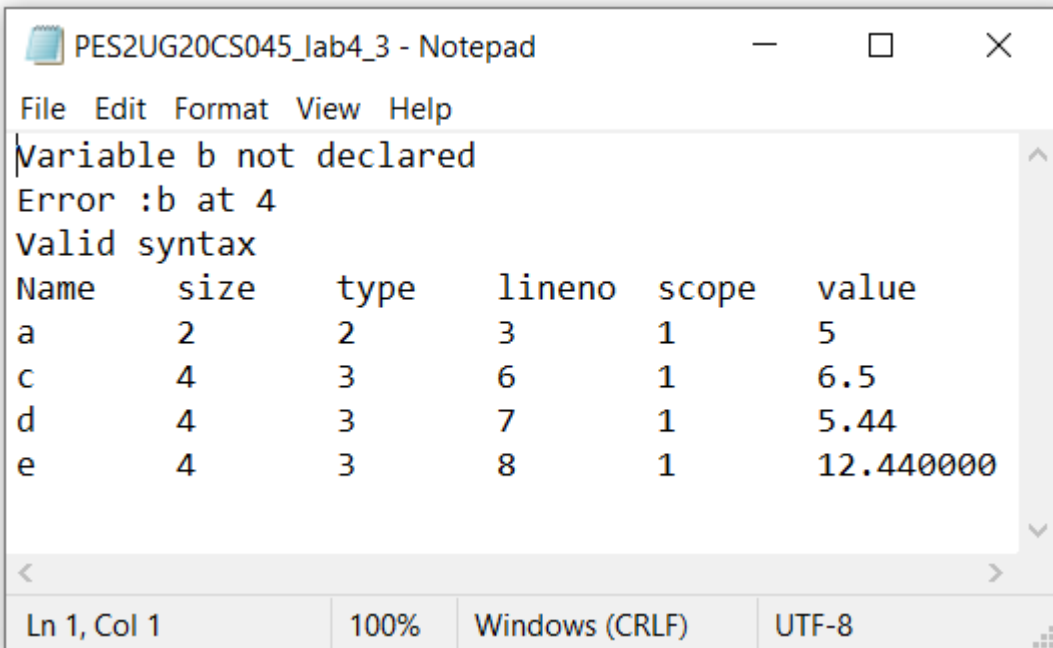
Mismatch type
Error :45.4 at 6
Error :syntax error at 7

Name	size	type	lineno	scope	value
x	4	3	5	1	3.4
y	2	2	6	1	45.4

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LAB 4 prog3

```
C:\GnuWin32\bin\PES2UG20CS045_lab4>a.exe<sample_input3.c>PES2UG20CS045_lab4_3.txt  
C:\GnuWin32\bin\PES2UG20CS045_lab4>
```



PES2UG20CS045_lab4_3 - Notepad

File Edit Format View Help

Variable b not declared
Error :b at 4
Valid syntax

Name	size	type	lineno	scope	value
a	2	2	3	1	5
c	4	3	6	1	6.5
d	4	3	7	1	5.44
e	4	3	8	1	12.440000

Ln 1, Col 1 100% Windows (CRLF) UTF-8