

CD LAB 3

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SRN: PES2UG22CS232

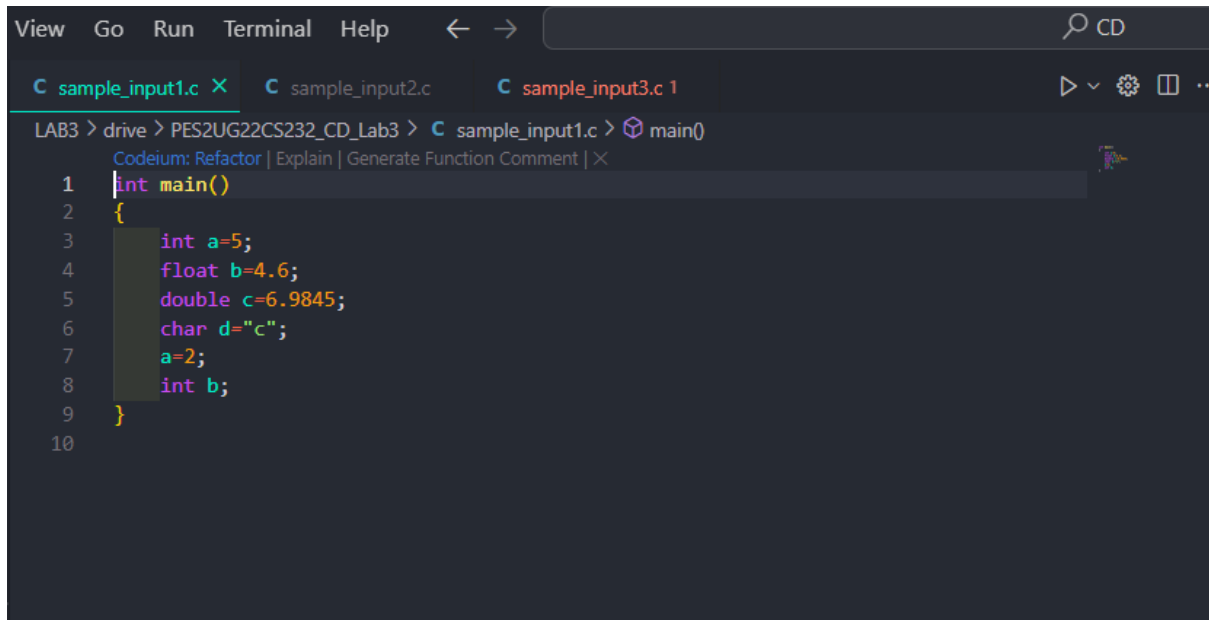
DATE: 20/02/2025

To run the codes, please use the run.sh file.

./run.sh

Input:

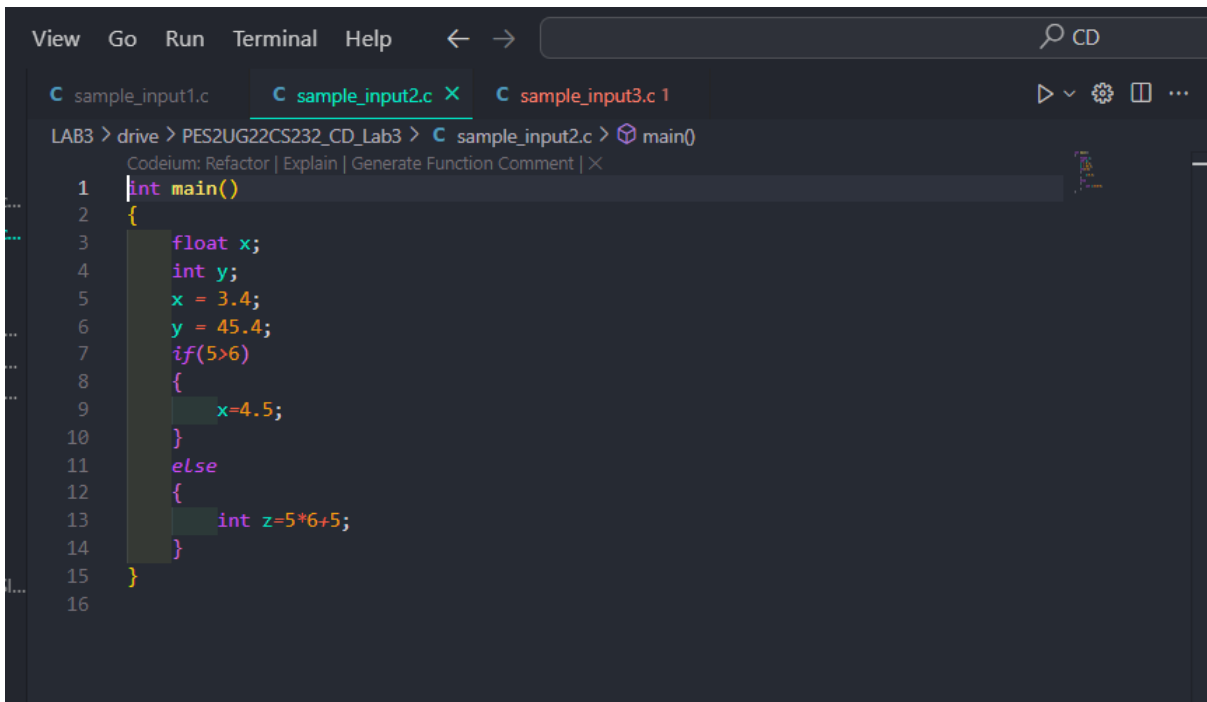
1:



The screenshot shows a code editor with a dark theme. The top bar includes 'View', 'Go', 'Run', 'Terminal', and 'Help' menus, along with navigation arrows and a search icon labeled 'CD'. Below the top bar, there are three tabs: 'C sample_input1.c' (active), 'C sample_input2.c', and 'C sample_input3.c 1'. The main editor area displays the following C code:

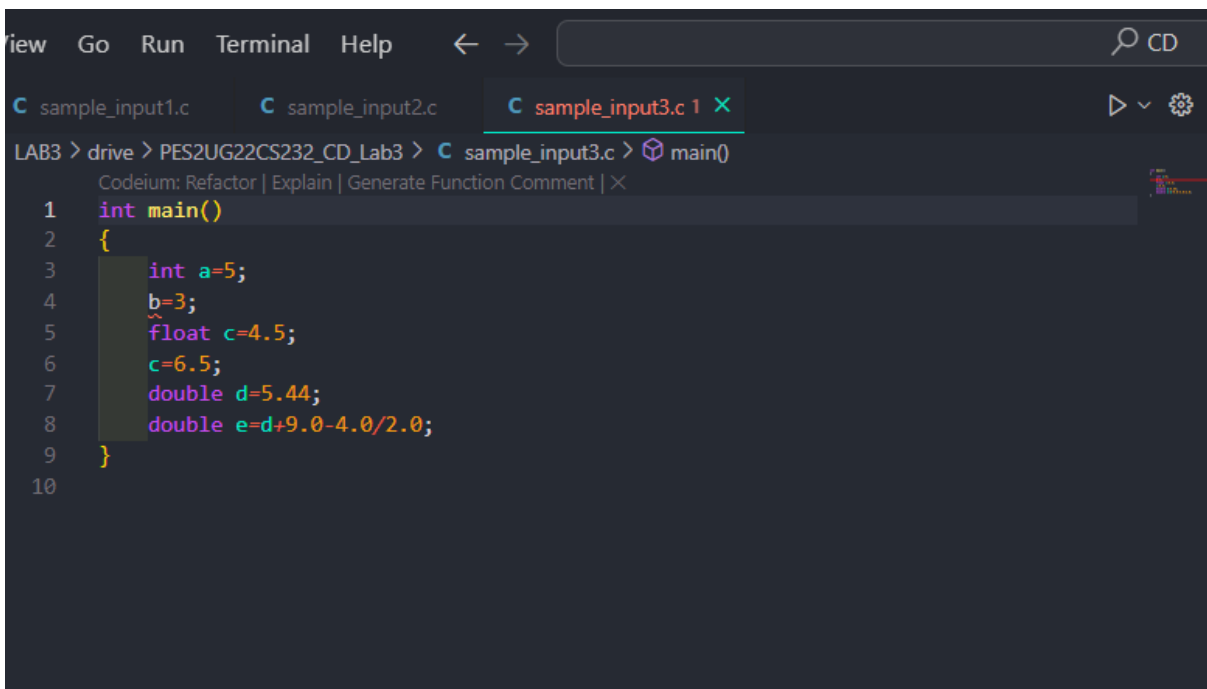
```
LAB3 > drive > PES2UG22CS232_CD_Lab3 > C sample_input1.c > main()
Codeium: Refactor | Explain | Generate Function Comment | X
1  int main()
2  {
3      int a=5;
4      float b=4.6;
5      double c=6.9845;
6      char d="c";
7      a=2;
8      int b;
9  }
10
```

2:



```
View Go Run Terminal Help ← → CD
C sample_input1.c C sample_input2.c X C sample_input3.c 1
LAB3 > drive > PES2UG22CS232_CD_Lab3 > C sample_input2.c > main()
Codeium: Refactor | Explain | Generate Function Comment | X
1 int main()
2 {
3     float x;
4     int y;
5     x = 3.4;
6     y = 45.4;
7     if(5>6)
8     {
9         x=4.5;
10    }
11    else
12    {
13        int z=5*6+5;
14    }
15 }
16
```

3:



```
View Go Run Terminal Help ← → CD
C sample_input1.c C sample_input2.c C sample_input3.c 1 X
LAB3 > drive > PES2UG22CS232_CD_Lab3 > C sample_input3.c > main()
Codeium: Refactor | Explain | Generate Function Comment | X
1 int main()
2 {
3     int a=5;
4     b=3;
5     float c=4.5;
6     c=6.5;
7     double d=5.44;
8     double e=d+9.0-4.0/2.0;
9 }
10
```

Output Screenshot:

1:

The MATLAB command window shows the following output:

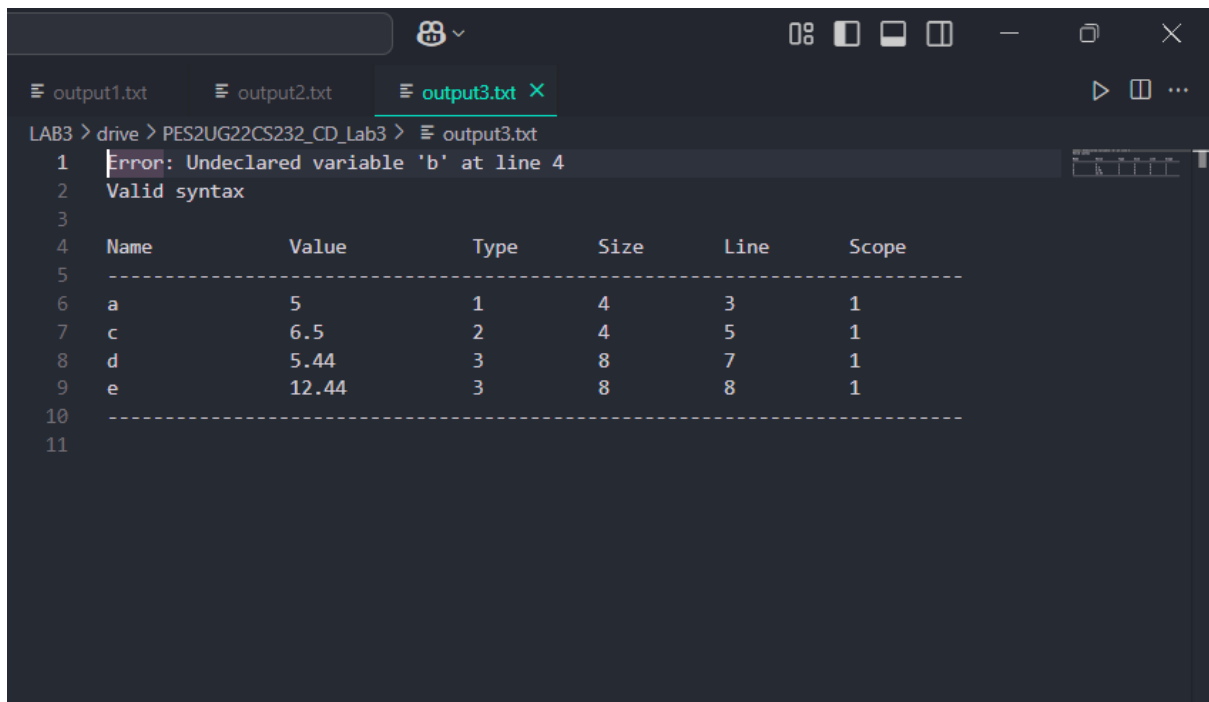
```
LAB3 > drive > PES2UG22CS232_CD_Lab3 > output1.txt
1 Error: Redeclaration of variable 'b' at line 8
2 Valid syntax
3
4 Name          Value          Type          Size          Line          Scope
5 -----
6 a              2              1              4              3              1
7 b              4.6            2              4              4              1
8 c              6.9845         3              8              5              1
9 d              "c"            4              1              6              1
10 -----
11
```

2:

The MATLAB command window shows the following output:

```
LAB3 > drive > PES2UG22CS232_CD_Lab3 > output2.txt
1 Error: syntax error at line 7
2
3 Name          Value          Type          Size          Line          Scope
4 -----
5 x              3.4            2              4              3              1
6 y              45.4           1              4              4              1
7 -----
8
```

3:



The screenshot shows the MATLAB IDE interface. The top toolbar includes icons for zooming, window management, and running code. The file explorer at the top shows three files: output1.txt, output2.txt, and output3.txt (which is the active file). The command window displays the following text:

```
LAB3 > drive > PES2UG22CS232_CD_Lab3 > output3.txt
1 Error: Undeclared variable 'b' at line 4
2 Valid syntax
3
4 Name          Value          Type          Size          Line          Scope
5 -----
6 a              5              1              4              3              1
7 c              6.5            2              4              5              1
8 d              5.44           3              8              7              1
9 e              12.44          3              8              8              1
10 -----
11
```

The error message indicates that the variable 'b' is undeclared at line 4. The table below shows the current state of the workspace variables.

Name	Value	Type	Size	Line	Scope
a	5	1	4	3	1
c	6.5	2	4	5	1
d	5.44	3	8	7	1
e	12.44	3	8	8	1