

UE20CS353-CD LAB-3

NAME	SRN	CLASS & SECTION
VIJAY J	PES2UG20CS815	6 - J

run.sh

```
\\wsl.localhost\Ubuntu\home\vijay\PES2UG20CS815\run.sh - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
run.sh sample_input.c
1 #!/bin/bash
2
3 lex lex.l
4 yacc -d parser.y -Wno
5 gcc -g y.tab.c lex.yy.c -ll
6
7 ./a.out<sample_input.c>output.txt
8 ./a.out<sample_input1.c>output1.txt
9 ./a.out<sample_input2.c>output2.txt
10 ./a.out<sample_input3.c>output3.txt
11
12
```

Sample_input.c

```
\\wsl.localhost\Ubuntu\home\vijay\PES2UG20CS815\sample_input.c - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins
run.sh sample_input.c
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
```

Output

```
Select vijay@DESKTOP-0RC6N3F: ~/PES2UG20CS815
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ ./run.sh
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ cat output.txt
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"
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ _
```

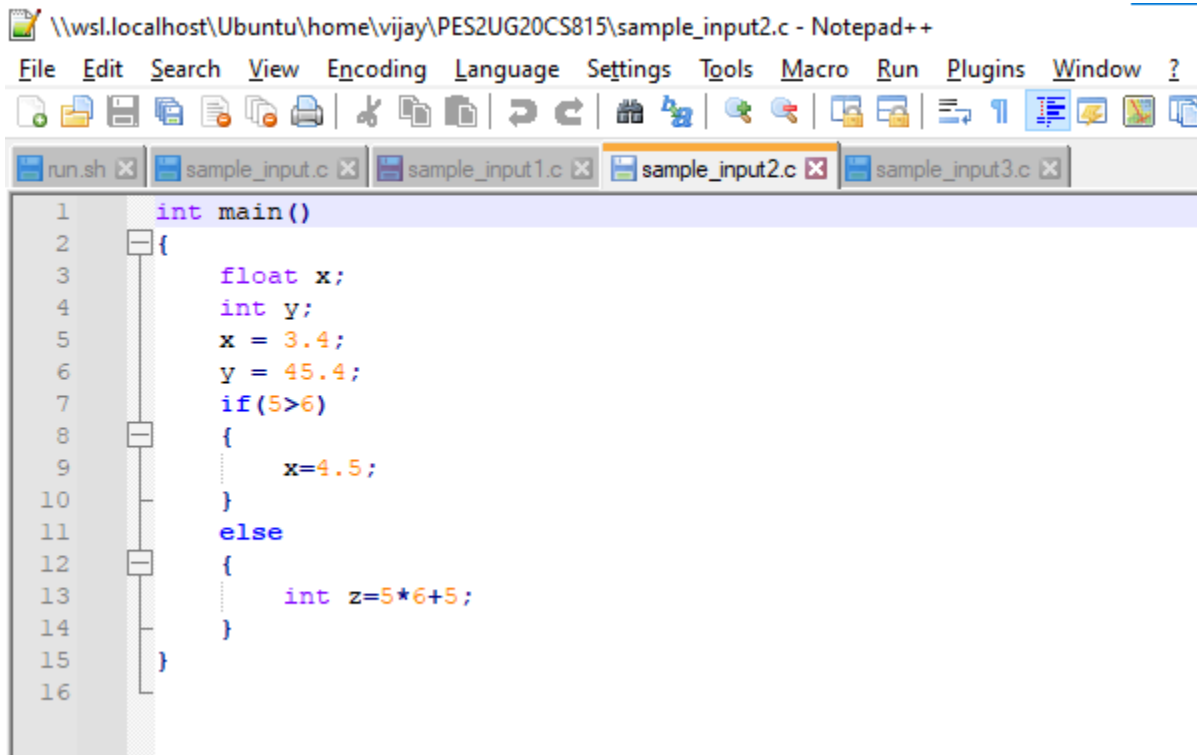
Sample_input1.c

```
*\\wsl.localhost\Ubuntu\home\vijay\PES2UG20CS815\sample_input1.c - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
run.sh x sample_input.c x sample_input1.c x sample_input2.c x sample_input3.c 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
```

Output

```
vijay@DESKTOP-0RC6N3F: ~/PES2UG20CS815
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ ./run.sh
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ cat output1.txt
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"
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$
```

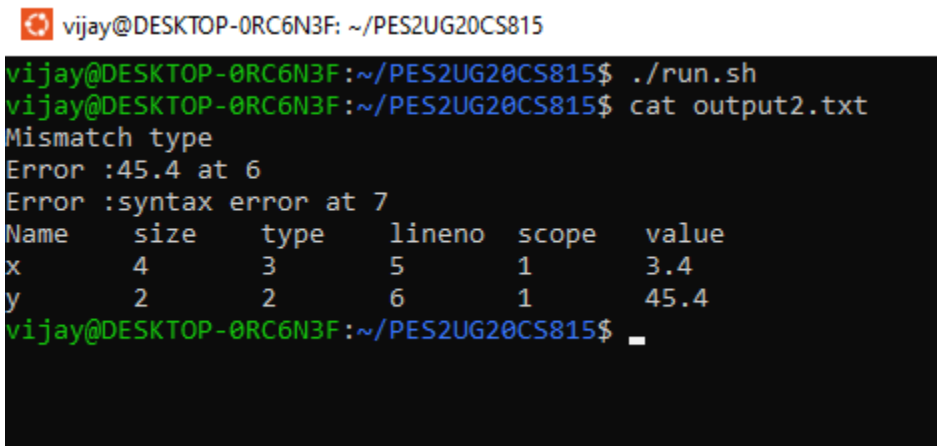
Sample_input2.c



The screenshot shows the Notepad++ editor with the file `sample_input2.c` open. The code is as follows:

```
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
```

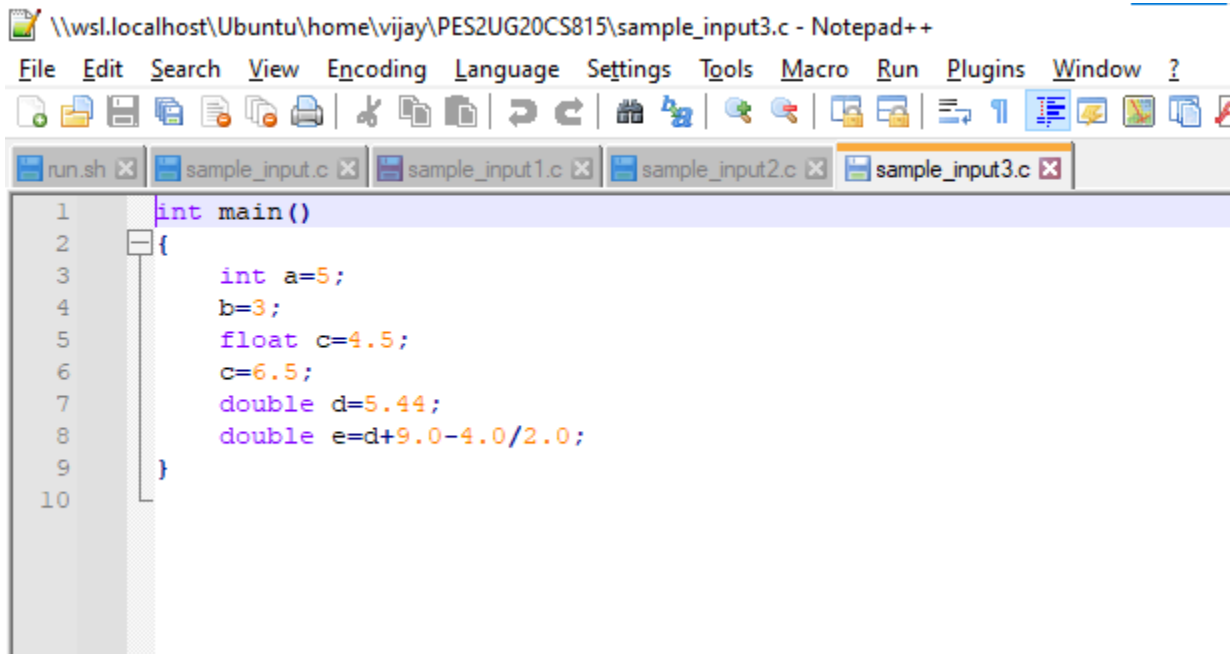
Output



The screenshot shows the terminal output of the program execution. The user runs `./run.sh` and `cat output2.txt`. The output shows a mismatch type error and a syntax error.

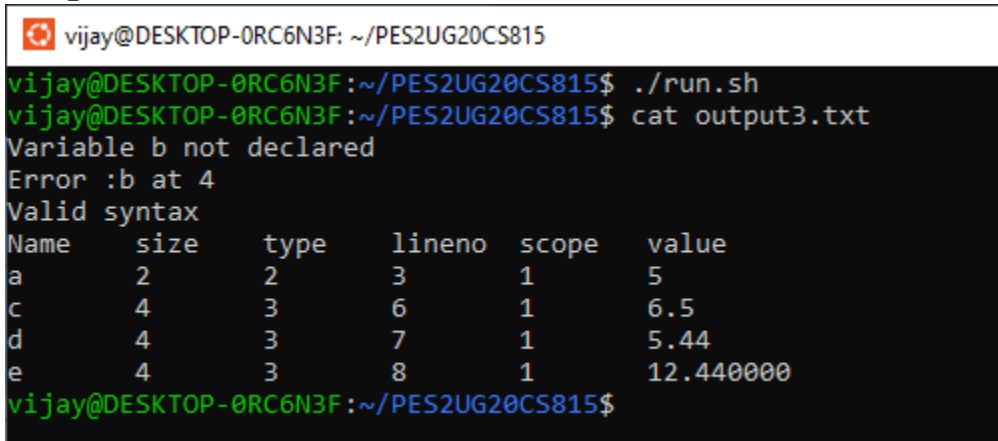
```
vijay@DESKTOP-0RC6N3F: ~/PES2UG20CS815  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ ./run.sh  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ cat output2.txt  
Mismatch type  
Error :45.4 at 6  
Error :syntax error at 7  
Name    size    type    lineno  scope    value  
x        4        3       5        1        3.4  
y        2        2       6        1        45.4  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$
```

Sample_input3.c



```
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



```
vijay@DESKTOP-0RC6N3F: ~/PES2UG20CS815  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ ./run.sh  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$ cat output3.txt  
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  
vijay@DESKTOP-0RC6N3F:~/PES2UG20CS815$
```