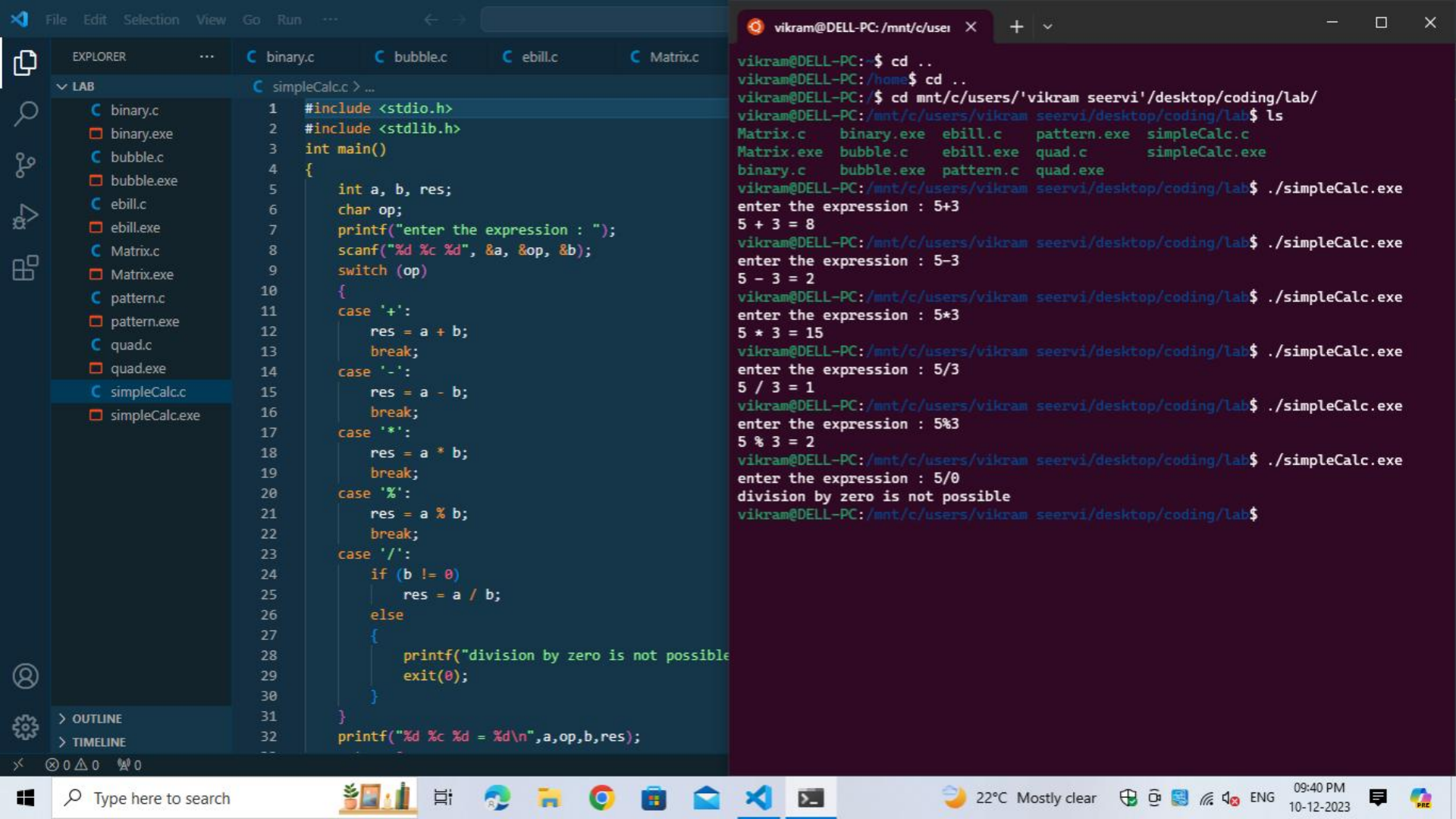
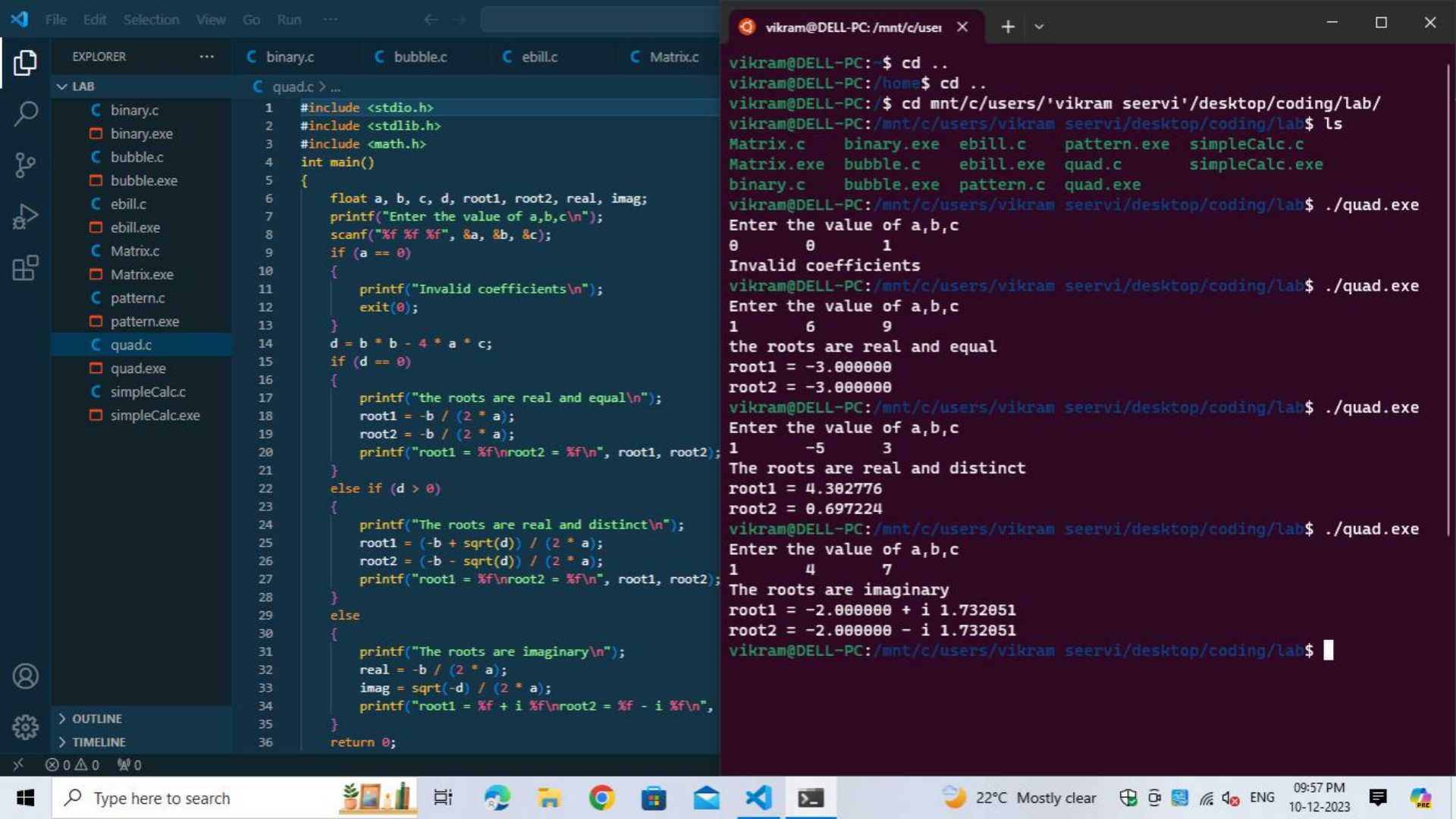

File Edit Selection View Go Run
EXPLORER
binary.c
bubble.c
ebill.c
Matrix.c
LAB
binary.c
binary.exe
bubble.c
bubble.exe
ebill.c
ebill.exe
Matrix.c
Matrix.exe
pattern.c
pattern.exe
quad.c
quad.exe
simpleCalc.c
simpleCalc.exe
OUTLINE
TIMELINE
simpleCalc.c > ...
#include <stdio.h>
#include <stdlib.h>
int main()
{
int a, b, res;
char op;
printf("enter the expression : ");
scanf("%d %c %d", &a, &op, &b);
switch (op)
{
case '+':
res = a + b;
break;
case '-':
res = a - b;
break;
case '*':
res = a * b;
break;
case '%':
res = a % b;
break;
case '/':
if (b != 0)
res = a / b;
else
{
printf("division by zero is not possible
exit(0);
}
}
printf("%d %c %d = %d\n",a,op,b,res);
vikram@DELL-PC: /mnt/c/user
vikram@DELL-PC:~$ cd ..
vikram@DELL-PC:/home$ cd ..
vikram@DELL-PC:/$ cd mnt/c/users/'vikram seervi'/desktop/coding/lab/
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ls
Matrix.c binary.exe ebill.c pattern.exe simpleCalc.c
Matrix.exe bubble.c ebill.exe quad.c simpleCalc.exe
binary.c bubble.exe pattern.c quad.exe
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5+3
5 + 3 = 8
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5-3
5 - 3 = 2
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5*3
5 * 3 = 15
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5/3
5 / 3 = 1
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5%3
5 % 3 = 2
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./simpleCalc.exe
enter the expression : 5/0
division by zero is not possible
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$
Type here to search
22°C Mostly clear
ENG
09:40 PM
10-12-2023


File Edit Selection View Go Run
EXPLORER
LAB
binary.c
binary.exe
bubble.c
bubble.exe
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quad.c
quad.exe
simpleCalc.c
simpleCalc.exe
OUTLINE
TIMELINE
binary.c
bubble.c
ebill.c
Matrix.c
quad.c > ...
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
int main()
{
float a, b, c, d, root1, root2, real, imag;
printf("Enter the value of a,b,c\n");
scanf("%f %f %f", &a, &b, &c);
if (a == 0)
{
printf("Invalid coefficients\n");
exit(0);
}
d = b * b - 4 * a * c;
if (d == 0)
{
printf("the roots are real and equal\n");
root1 = -b / (2 * a);
root2 = -b / (2 * a);
printf("root1 = %f\nroot2 = %f\n", root1, root2);
}
else if (d > 0)
{
printf("The roots are real and distinct\n");
root1 = (-b + sqrt(d)) / (2 * a);
root2 = (-b - sqrt(d)) / (2 * a);
printf("root1 = %f\nroot2 = %f\n", root1, root2);
}
else
{
printf("The roots are imaginary\n");
real = -b / (2 * a);
imag = sqrt(-d) / (2 * a);
printf("root1 = %f + i %f\nroot2 = %f - i %f\n",
}
return 0;
vikram@DELL-PC: /mnt/c/user
vikram@DELL-PC:~$ cd ..
vikram@DELL-PC:/home$ cd ..
vikram@DELL-PC:/$ cd mnt/c/users/'vikram seervi'/desktop/coding/lab/
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ls
Matrix.c binary.exe ebill.c pattern.exe simpleCalc.c
Matrix.exe bubble.c ebill.exe quad.c simpleCalc.exe
binary.c bubble.exe pattern.c quad.exe
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./quad.exe
Enter the value of a,b,c
0 0 1
Invalid coefficients
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./quad.exe
Enter the value of a,b,c
1 6 9
the roots are real and equal
root1 = -3.000000
root2 = -3.000000
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./quad.exe
Enter the value of a,b,c
1 -5 3
The roots are real and distinct
root1 = 4.302776
root2 = 0.697224
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./quad.exe
Enter the value of a,b,c
1 4 7
The roots are imaginary
root1 = -2.000000 + i 1.732051
root2 = -2.000000 - i 1.732051
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$
Type here to search
22°C Mostly clear
ENG
09:57 PM
10-12-2023

File Edit Selection View Go Run ···

Lab

EXPLORER

LAB

- binary.c
- binary.exe
- bubble.c
- bubble.exe
- ebill.c
- ebill.exe
- Matrix.c
- Matrix.exe
- pattern.c
- pattern.exe
- quad.c
- quad.exe
- simpleCalc.c
- simpleCalc.exe

OUTLINE

TIMELINE

binary.c | bubble.c | ebill.c | Matrix.c | pattern.c | quad.c | ebill.exe | simpleCalc.c

ebill.c > main()

```c
#include <stdio.h>
int main()
{
    char name[20];
    int units;
    float charges;
    printf("enter the name of the user and units consumed\n");
    scanf("%s %d", &name, &units);
    if (units <= 200)
        charges = units * 0.80;
    else if (units <= 300)
        charges = 200 * 0.80 + (units - 200) * 0.90;
    else
        charges = 200 * 0.80 + 100 * 0.90 + (units - 300) * 1.0;
    charges = charges + 100;
    if (charges > 400)
        charges = charges + 0.15 * charges;
    printf("%s has to pay rupees %f\n", name, charges);
}
```

PROBLEMS OUTPUT TERMINAL PORTS DEBUG CONSOLE

bash

pwsh

wsl

```
Vikram@DELL-PC MINGW64 ~/Desktop/Coding/Lab
$ ./ebill.exe
enter the name of the user and units consumed
vikram
200
vikram has to pay rupees 260.000000

Vikram@DELL-PC MINGW64 ~/Desktop/Coding/Lab
$ ./ebill.exe
enter the name of the user and units consumed
vikram
400
vikram has to pay rupees 517.500000
```

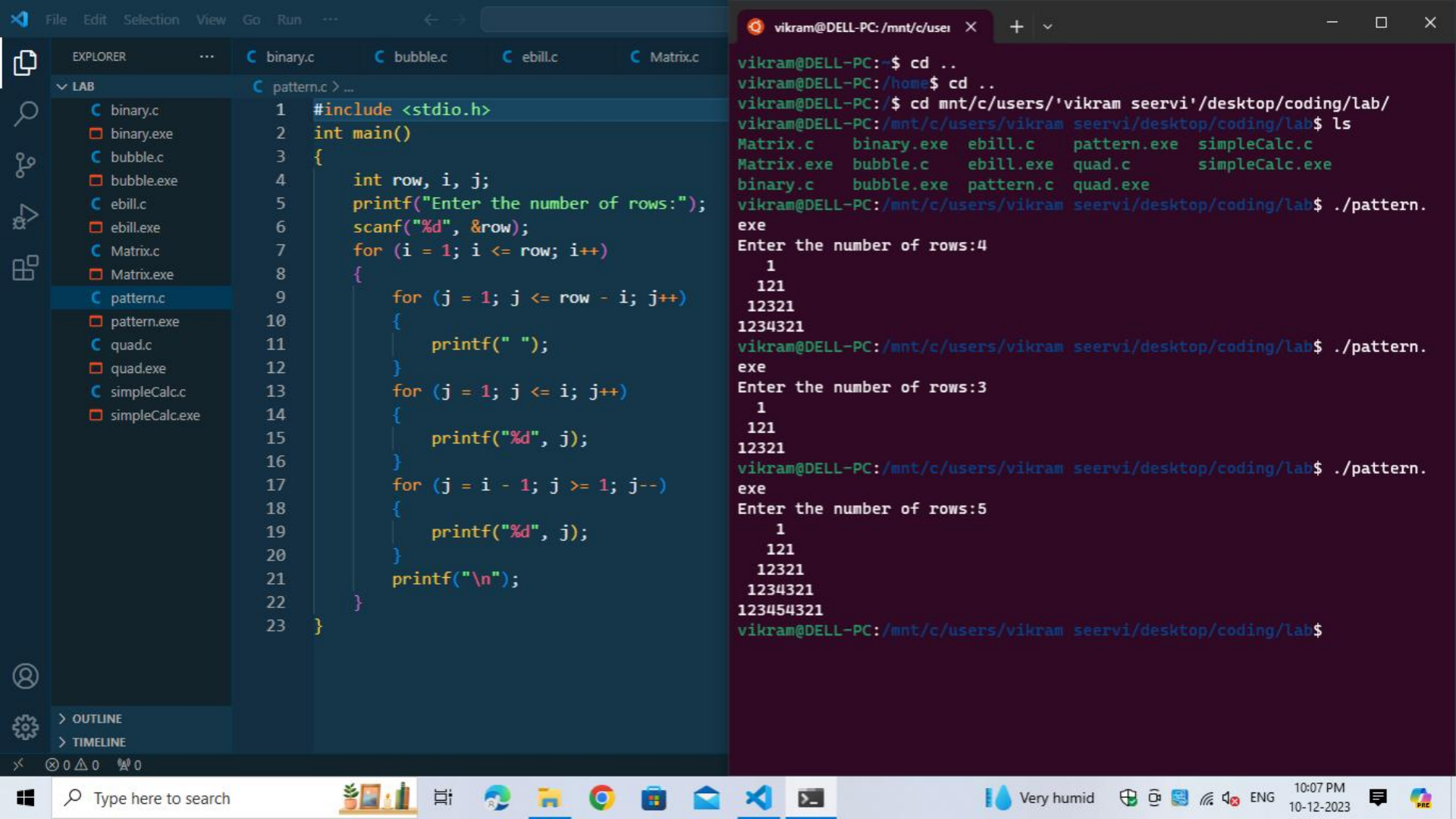
Ln 19, Col 2 Spaces: 4 UTF-8 CRLF { } C Win32

Type here to search

USD/EUR +0.28%

ENG

10:03 PM
10-12-2023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ebill.exe
Matrix.c
Matrix.exe
pattern.c
pattern.exe
quad.c
quad.exe
simpleCalc.c
simpleCalc.exe
OUTLINE
TIMELINE
binary.c
bubble.c
ebill.c
Matrix.c
pattern.c > ...
#include <stdio.h>
int main()
{
int row, i, j;
printf("Enter the number of rows:");
scanf("%d", &row);
for (i = 1; i <= row; i++)
{
for (j = 1; j <= row - i; j++)
{
printf(" ");
}
for (j = 1; j <= i; j++)
{
printf("%d", j);
}
for (j = i - 1; j >= 1; j--)
{
printf("%d", j);
}
printf("\n");
}
}
vikram@DELL-PC: /mnt/c/user
vikram@DELL-PC:~$ cd ..
vikram@DELL-PC:/home$ cd ..
vikram@DELL-PC:/$ cd mnt/c/users/'vikram seervi'/desktop/coding/lab/
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ls
Matrix.c binary.exe ebill.c pattern.exe simpleCalc.c
Matrix.exe bubble.c ebill.exe quad.c simpleCalc.exe
binary.c bubble.exe pattern.c quad.exe
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./pattern.
exe
Enter the number of rows:4
1
121
12321
1234321
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./pattern.
exe
Enter the number of rows:3
1
121
12321
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$ ./pattern.
exe
Enter the number of rows:5
1
121
12321
1234321
123454321
vikram@DELL-PC:/mnt/c/users/vikram seervi/desktop/coding/lab$
Type here to search
Very humid
ENG
10:07 PM
10-12-2023