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M T W T F S S

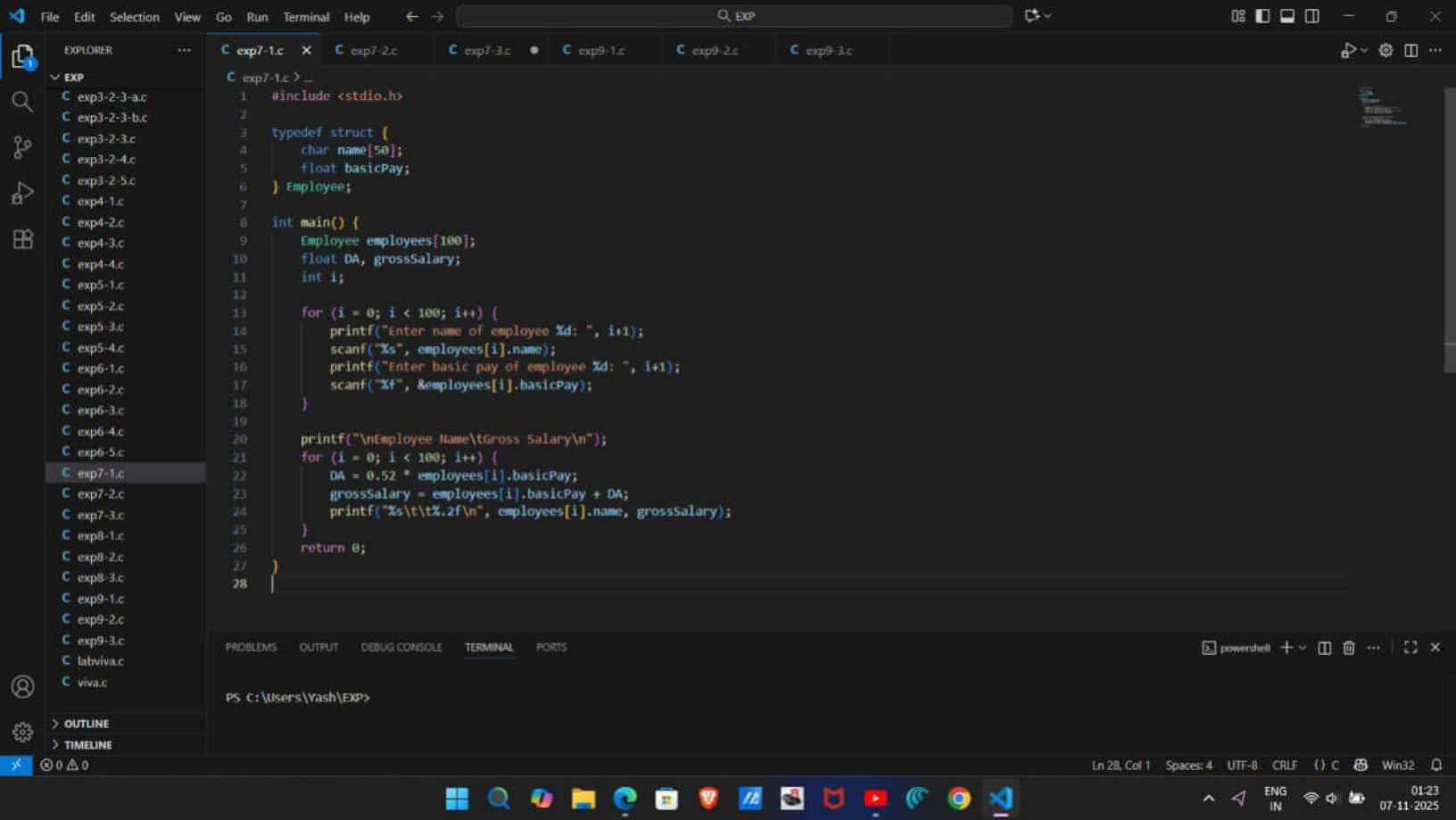
7-1 (STRUCTERS)

```
# include <stdio.h>
# include <string.h>

Struct book {
   int book_id;
   Char title [50];
   char Author [50];
     float price;
};
void printbook ( struct book B ) {
printf (" Book ID : %d ", B.book_id );
 printf (" Author : %s ", b.Author );
 printf (" Price %.2f ",  b.price );
    int main () {
     Struct book my book;
        mybook . book_id = 101;
      strcpy ( mybook.title, "C Programming" )
      strcpy ( mbook . Author, " Dennis Ritt")
           mybook . price = 29.99;

      print book details (my book);
      return 0;
    }
```

Teacher's Signature:


File Edit Selection View Go Run Terminal Help
EXP
EXPLORER
EXP
exp3-2-3-a.c
exp3-2-3-b.c
exp3-2-3.c
exp3-2-4.c
exp3-2-5.c
exp4-1.c
exp4-2.c
exp4-3.c
exp4-4.c
exp5-1.c
exp5-2.c
exp5-3.c
exp5-4.c
exp6-1.c
exp6-2.c
exp6-3.c
exp6-4.c
exp6-5.c
exp7-1.c
exp7-2.c
exp7-3.c
exp8-1.c
exp8-2.c
exp8-3.c
exp9-1.c
exp9-2.c
exp9-3.c
labviva.c
viva.c
OUTLINE
TIMELINE
exp7-1.c
exp7-2.c
exp7-3.c
exp9-1.c
exp9-2.c
exp9-3.c
exp7-1.c > ...
#include <stdio.h>
typedef struct {
char name[50];
float basicPay;
} Employee;
int main() {
Employee employees[100];
float DA, grossSalary;
int i;
for (i = 0; i < 100; i++) {
printf("Enter name of employee %d: ", i+1);
scanf("%s", employees[i].name);
printf("Enter basic pay of employee %d: ", i+1);
scanf("%f", &employees[i].basicPay);
}
printf("\nEmployee Name\tGross Salary\n");
for (i = 0; i < 100; i++) {
DA = 0.52 * employees[i].basicPay;
grossSalary = employees[i].basicPay + DA;
printf("%s\t\t%.2f\n", employees[i].name, grossSalary);
}
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
PS C:\Users\Yash\EXP>
Ln 28, Col 1
Spaces: 4
UTF-8
CRLF
C
Win32
ENG
IN
01:23
07-11-2025

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M T W T F S S

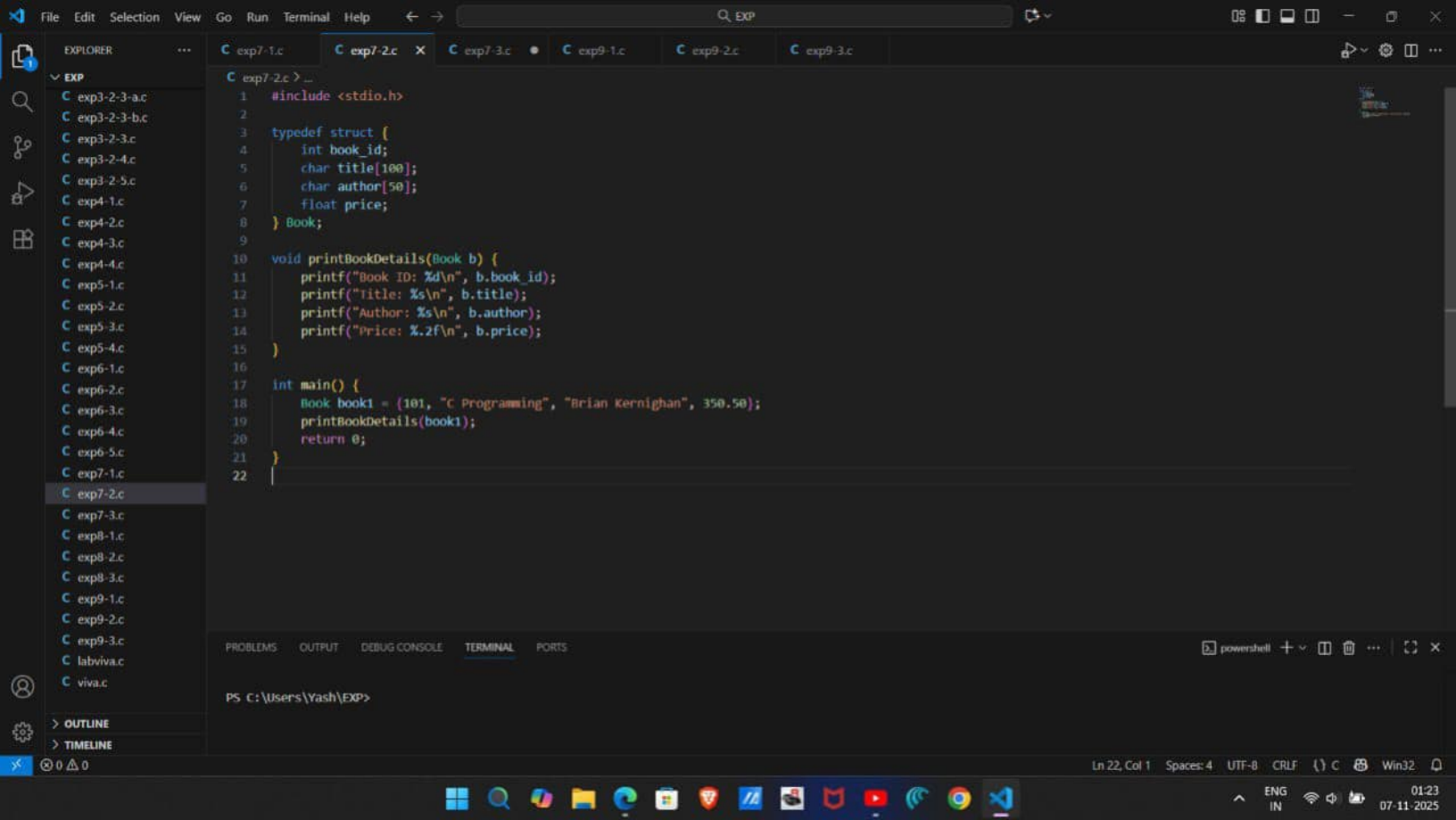
1_3

```
#include <stdio.h>
#include <string.h>

Union Address {
    char name[50];
    char name_address[100];
    char hostel_address[100];
    char city[30];
    char State[30];
    char zip[30];
    }
int main() {
    Union address present_address;
    strcpy(present_address.hostel_address,
        "Room 101, Hostel building A");
    printf("present Address : %s");
        present Address.hostel_address

    return 0;
}
```

Teacher's Signature:


File Edit Selection View Go Run Terminal Help
EXP
EXPLORER
EXP
exp3-2-3-a.c
exp3-2-3-b.c
exp3-2-3.c
exp3-2-4.c
exp3-2-5.c
exp4-1.c
exp4-2.c
exp4-3.c
exp4-4.c
exp5-1.c
exp5-2.c
exp5-3.c
exp5-4.c
exp6-1.c
exp6-2.c
exp6-3.c
exp6-4.c
exp6-5.c
exp7-1.c
exp7-2.c
exp7-3.c
exp8-1.c
exp8-2.c
exp8-3.c
exp9-1.c
exp9-2.c
exp9-3.c
labviva.c
viva.c
OUTLINE
TIMELINE
exp7-1.c
exp7-2.c
exp7-3.c
exp9-1.c
exp9-2.c
exp9-3.c
exp7-2.c > ...
#include <stdio.h>
typedef struct {
int book_id;
char title[100];
char author[50];
float price;
} Book;
void printBookDetails(Book b) {
printf("Book ID: %d\n", b.book_id);
printf("Title: %s\n", b.title);
printf("Author: %s\n", b.author);
printf("Price: %.2f\n", b.price);
}
int main() {
Book book1 = {101, "C Programming", "Brian Kernighan", 350.50};
printBookDetails(book1);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
PS C:\Users\Yash\EXP>
Ln 22, Col 1
Spaces: 4
UTF-8
CRLF
C
Win32
ENG
IN
01:23
07-11-2025

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M T W T F S S

Experiment 8 (Pointers)

8-1

```
#include <stdio.h>
int main() {
int a = 10;
float b = 5.5;
char c = 'z';

int *ptr_int = &a;
float *ptr_float = &b;
char *ptr_char = &c;

printf("Address stored in ptr_int: %p", (void*)ptr_int);
printf("Address stored in ptr_char: %p", (void*)ptr_char);
printf("value of b directly: %.2f", b);
printf("value of c directly: %c", c);

return 0;
}
```

Teacher's Signature:

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Q3

```
#include <stdio.h>
using namespace std;

void modifying values (int* ptr1 , int* ptr2 ){
    *ptr1 =10;
    *ptr2 =20;
    }
int main (){
 int a= 5 , b=15;
     cout<<
a = "<<a<<".
b = "<<b<< endl;

 modify values (&a, &b);
      out <<
a = "<<a<<"
b = "<<b<< endl;

    return 0;
}
```

Teacher's Signature:

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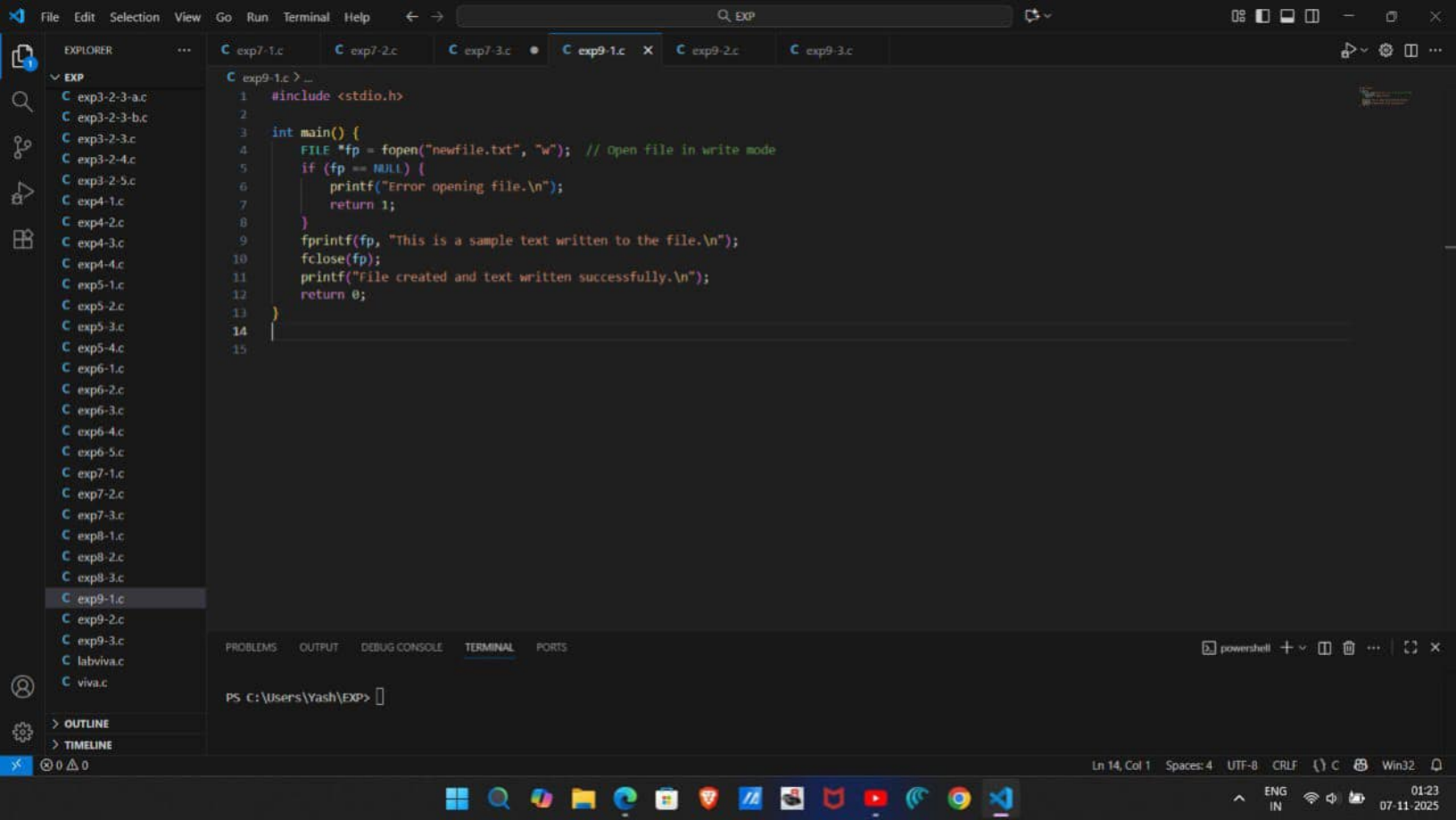
Experiment 9 (file Handling)

9.1

```
#include <iostream>
#include <fstream>

using namespace std;
int main() {
    ofstream
    outfile ("example.txt");
    if (outfile.is_open()) {
        outfile <<;
        outfile.close();
        cout <<
        << endl;
    } else {
        cerr <<
        << endl;
        return 1;
        }
while (infile.get(ch)) {
    cout << ch;
} infile.close();
    return 1;
}
    return 0
    }
```

Teacher's Signature:


File Edit Selection View Go Run Terminal Help
EXP
EXPLORER
EXP
exp3-2-3-a.c
exp3-2-3-b.c
exp3-2-3.c
exp3-2-4.c
exp3-2-5.c
exp4-1.c
exp4-2.c
exp4-3.c
exp4-4.c
exp5-1.c
exp5-2.c
exp5-3.c
exp5-4.c
exp6-1.c
exp6-2.c
exp6-3.c
exp6-4.c
exp6-5.c
exp7-1.c
exp7-2.c
exp7-3.c
exp8-1.c
exp8-2.c
exp8-3.c
exp9-1.c
exp9-2.c
exp9-3.c
labviva.c
viva.c
OUTLINE
TIMELINE
exp7-1.c
exp7-2.c
exp7-3.c
exp9-1.c
exp9-2.c
exp9-3.c
exp9-1.c > ...
#include <stdio.h>
int main() {
FILE *fp = fopen("newfile.txt", "w"); // Open file in write mode
if (fp == NULL) {
printf("Error opening file.\n");
return 1;
}
fprintf(fp, "This is a sample text written to the file.\n");
fclose(fp);
printf("File created and text written successfully.\n");
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
PS C:\Users\Yash\EXP>
Ln 14, Col 1
Spaces: 4
UTF-8
CRLF
C
Win32
ENG
IN
01:23
07-11-2025

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NAME

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Date:

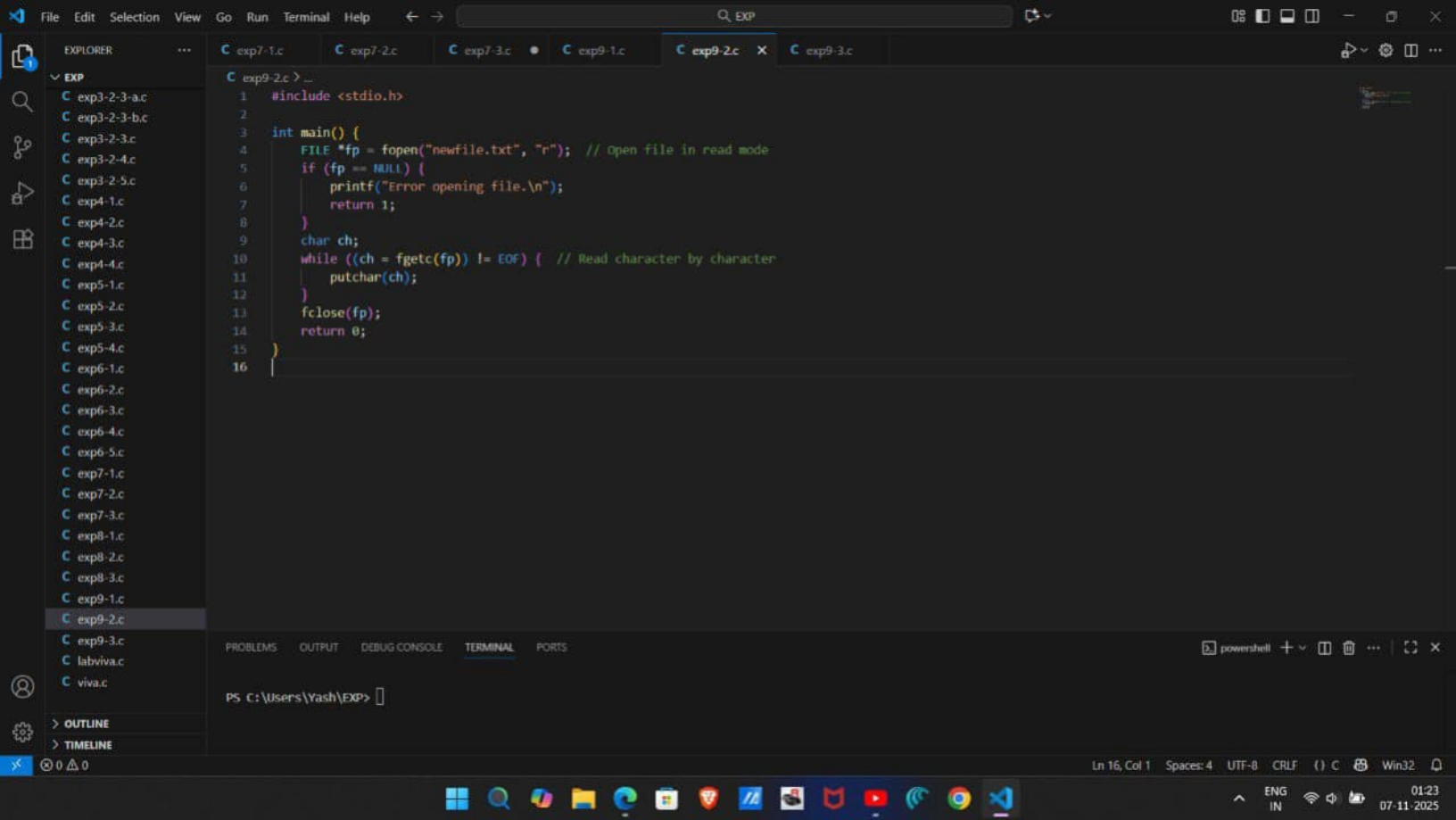
YOUVA

Q-2

```
#include <iostream>
#include <fstream>

using namespace std;
int main (){
    char ch;
    ifstream
    infile ("example.txt");
    if(!infile ){
        cerr <<
        <<endl;
        return 1;
    }
    while(infile.get(ch)){
        cout << ch;
    }
    infile.close();
    return 0;
}
```

Teacher's Signature:


File Edit Selection View Go Run Terminal Help
EXP
EXPLORER
EXP
exp3-2-3-a.c
exp3-2-3-b.c
exp3-2-3.c
exp3-2-4.c
exp3-2-5.c
exp4-1.c
exp4-2.c
exp4-3.c
exp4-4.c
exp5-1.c
exp5-2.c
exp5-3.c
exp5-4.c
exp6-1.c
exp6-2.c
exp6-3.c
exp6-4.c
exp6-5.c
exp7-1.c
exp7-2.c
exp7-3.c
exp8-1.c
exp8-2.c
exp8-3.c
exp9-1.c
exp9-2.c
exp9-3.c
labviva.c
viva.c
OUTLINE
TIMELINE
exp7-1.c
exp7-2.c
exp7-3.c
exp9-1.c
exp9-2.c
exp9-3.c
exp9-2.c > ...
#include <stdio.h>
int main() {
FILE *fp = fopen("newfile.txt", "r"); // Open file in read mode
if (fp == NULL) {
printf("Error opening file.\n");
return 1;
}
char ch;
while ((ch = fgetc(fp)) != EOF) { // Read character by character
putchar(ch);
}
fclose(fp);
return 0;
}
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
powershell
PS C:\Users\Yash\EXP>
Ln 16, Col 1
Spaces: 4
UTF-8
CRLF
C
Win32
ENG
IN
01:23
07-11-2025