# Arrays and Pointers Assignment

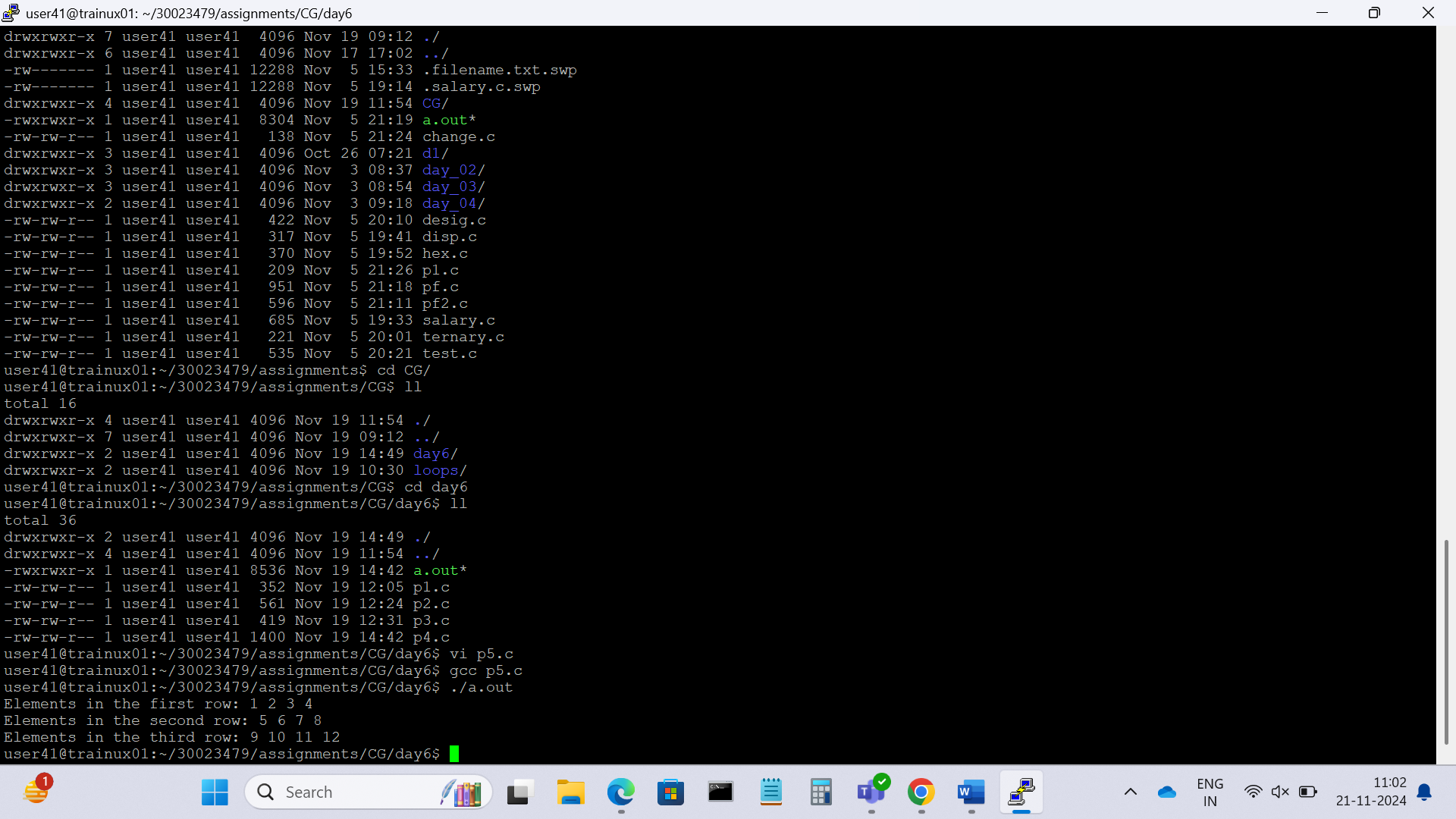
**Mandatory**

1. What does the code below refer to? Extend the code and demonstrate the use of ptr to access the contents of a 2D array.

int (\*ptr)[4];

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1. Refer the code snippet below. Implement the function search\_insert() as mentioned in the code.

#define MAX 80

//search for the given char and if found, then create space for 1 character and insert ‘\_’ after the searched character. Let the remaining characters in the input be placed after ‘\_’.

int search\_insert(char name[], char search\_char);

int main()

{

char name[MAX]=”ABC”;

char \*ptr = name;

int ret = search\_insert(name, search\_char);

if (ret == SUCCESS)

{

//display updated string

}

}

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1. Refer the program "pointer\_example.c". Fix the warning issue.

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1. Consider an array of strings as below.

char arr[][10]={"Word", "Excel", "PowerPoint", "Pdf", "Paint"};

* 1. Implement a function read\_displaystring() to read a row index from the user, access the string, store in a char \* variable and using this, traverse every alternate character in the string and display in console.

void read\_displaystring(char \*arr[][10], int row);

* 1. Reverse the string read at the index in a) using a function of prototype as below. Caller to read the returned string and display the reversed string. [Ensure that the input source array is not corrupted and remaining elements are intact]

char \*reverse(char \*arr[][10], int row);

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