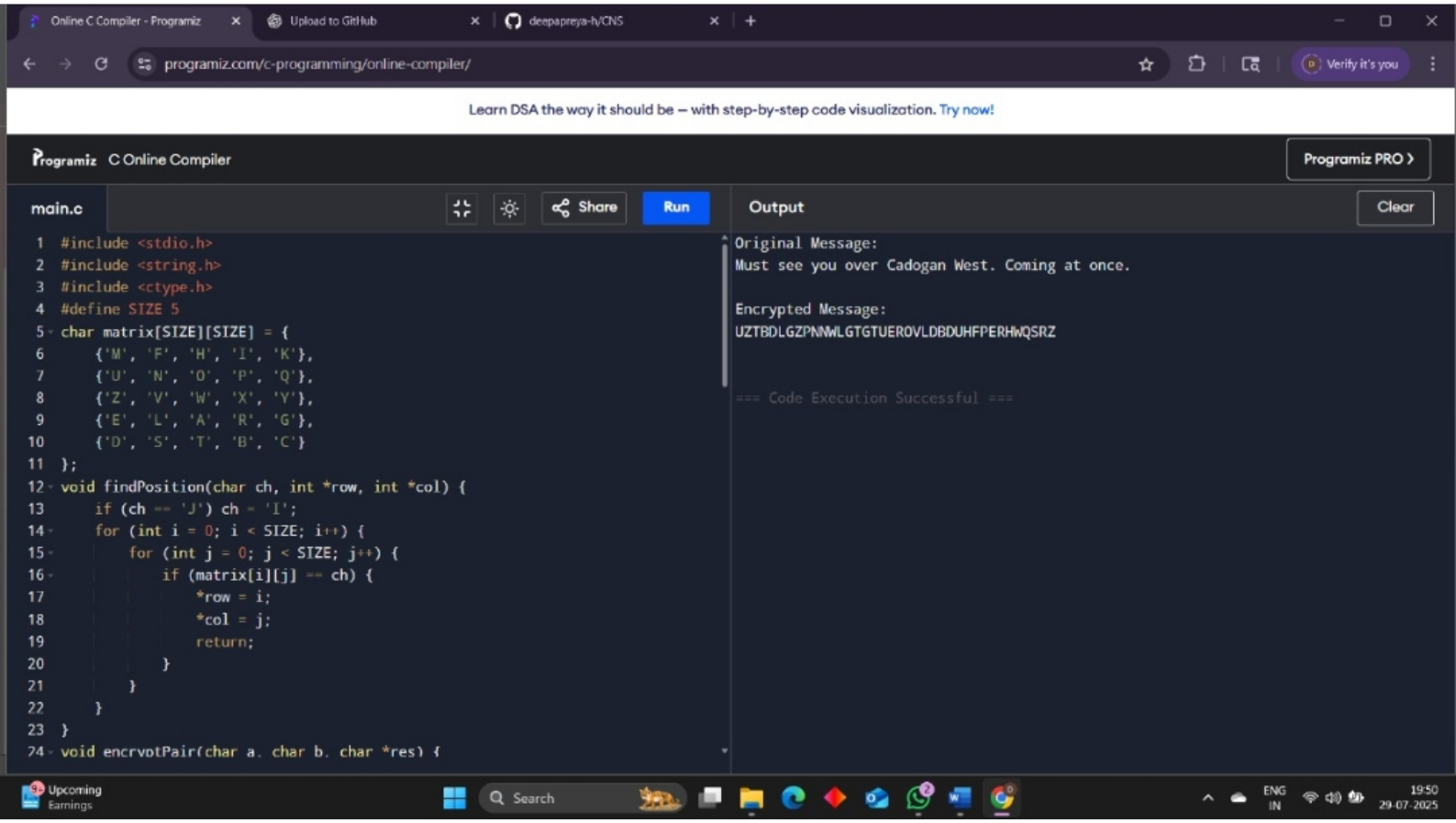
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main.c
Share
Run
Output
Clear
#include <stdio.h>
#include <string.h>
#include <ctype.h>
#define SIZE 5
char matrix[SIZE][SIZE] = {
{'M', 'F', 'H', 'I', 'K'},
{'U', 'N', 'O', 'P', 'Q'},
{'Z', 'V', 'W', 'X', 'Y'},
{'E', 'L', 'A', 'R', 'G'},
{'D', 'S', 'T', 'B', 'C'}
};
void findPosition(char ch, int *row, int *col) {
if (ch == 'J') ch = 'I';
for (int i = 0; i < SIZE; i++) {
for (int j = 0; j < SIZE; j++) {
if (matrix[i][j] == ch) {
*row = i;
*col = j;
return;
}
}
}
}
void encryptPair(char a, char b, char *res) {
Original Message:
Must see you over Cadogan West. Coming at once.
Encrypted Message:
UZTBDLGZPNWLGTGTUEROVLDBDUHFPERHWQSRZ
=== Code Execution Successful ===
Upcoming Earnings
Search
ENG IN
19:50
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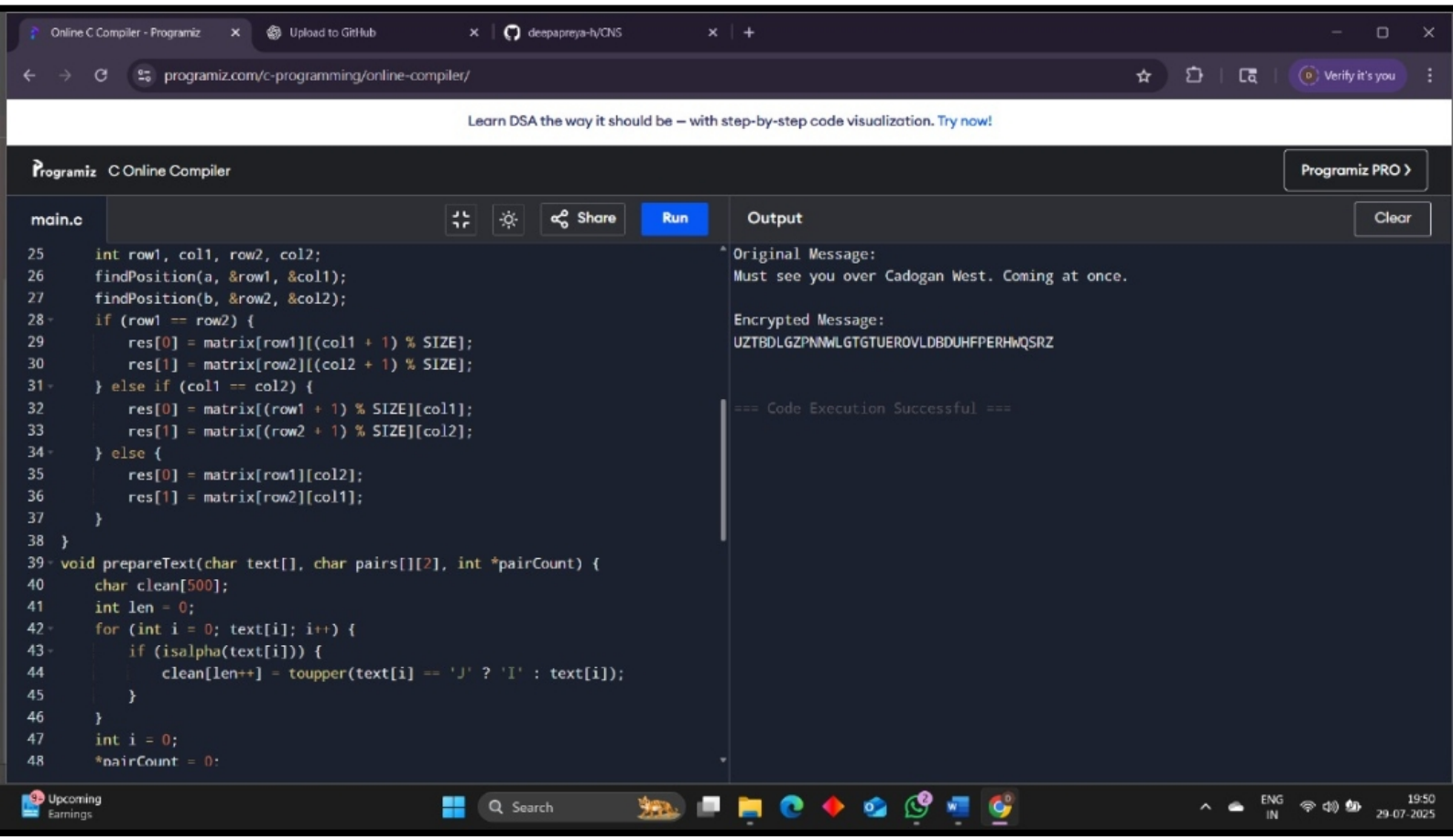
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Output
Clear
int row1, col1, row2, col2;
findPosition(a, &row1, &col1);
findPosition(b, &row2, &col2);
if (row1 == row2) {
res[0] = matrix[row1][(col1 + 1) % SIZE];
res[1] = matrix[row2][(col2 + 1) % SIZE];
} else if (col1 == col2) {
res[0] = matrix[(row1 + 1) % SIZE][col1];
res[1] = matrix[(row2 + 1) % SIZE][col2];
} else {
res[0] = matrix[row1][col2];
res[1] = matrix[row2][col1];
}
}
void prepareText(char text[], char pairs[][2], int *pairCount) {
char clean[500];
int len = 0;
for (int i = 0; text[i]; i++) {
if (isalpha(text[i])) {
clean[len++] = toupper(text[i] == 'J' ? 'I' : text[i]);
}
}
int i = 0;
*pairCount = 0;
Original Message:
Must see you over Cadogan West. Coming at once.
Encrypted Message:
UZTBDLGZPNWLGTGTUEROVLDBDUHFPERHWQSRZ
=== Code Execution Successful ===
Upcoming Earnings
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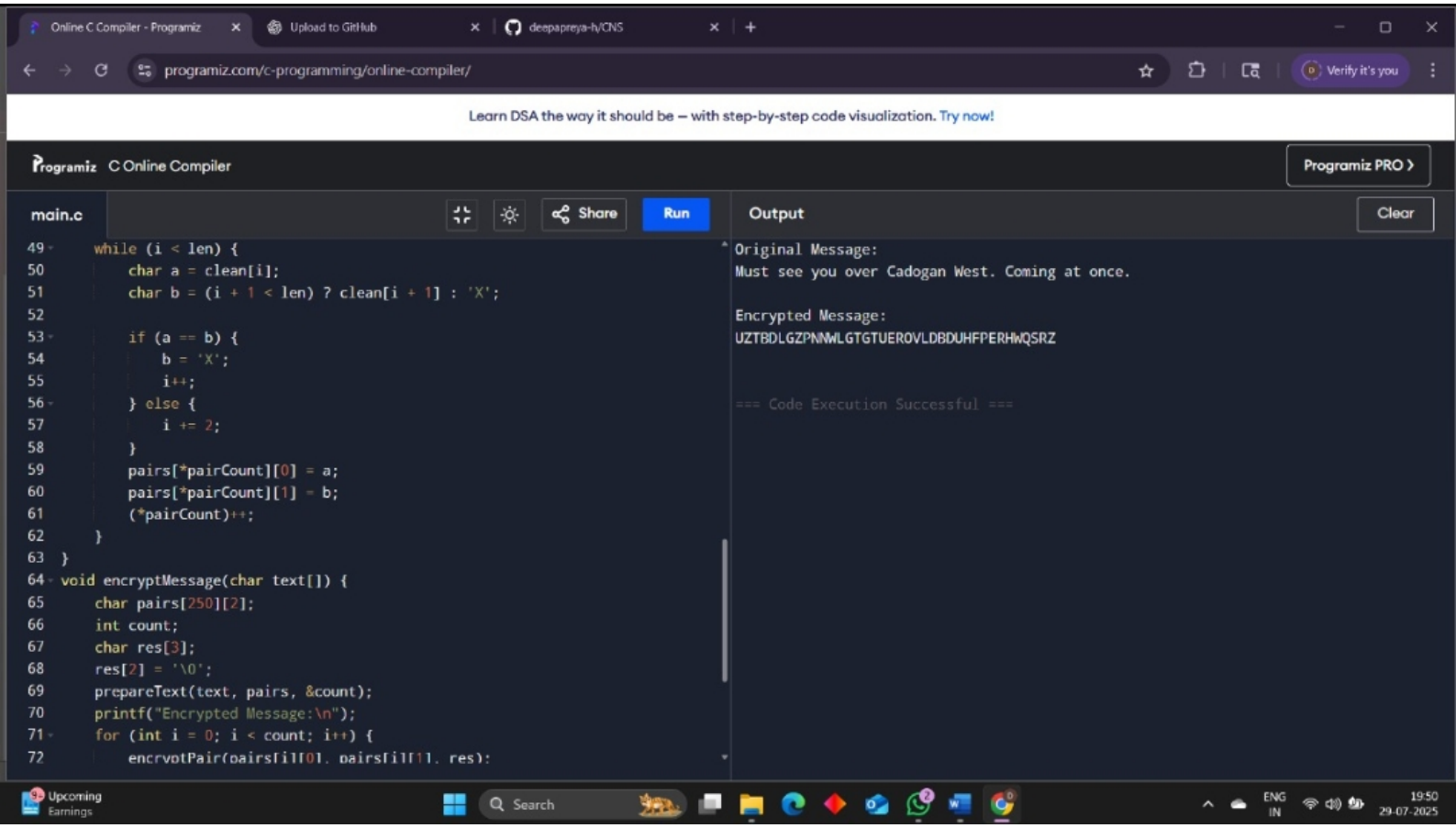
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Programiz PRO
main.c
Share
Run
Output
Clear
while (i < len) {
char a = clean[i];
char b = (i + 1 < len) ? clean[i + 1] : 'X';
if (a == b) {
b = 'X';
i++;
} else {
i += 2;
}
pairs[*pairCount][0] = a;
pairs[*pairCount][1] = b;
(*pairCount)++;
}
}
void encryptMessage(char text[]) {
char pairs[250][2];
int count;
char res[3];
res[2] = '\0';
prepareText(text, pairs, &count);
printf("Encrypted Message:\n");
for (int i = 0; i < count; i++) {
Original Message:
Must see you over Cadogan West. Coming at once.
Encrypted Message:
UZTBDLGZPNWLGTGTUEROVLDBDUHFPERHWQSRZ
=== Code Execution Successful ===
Upcoming Earnings
Search
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19:50
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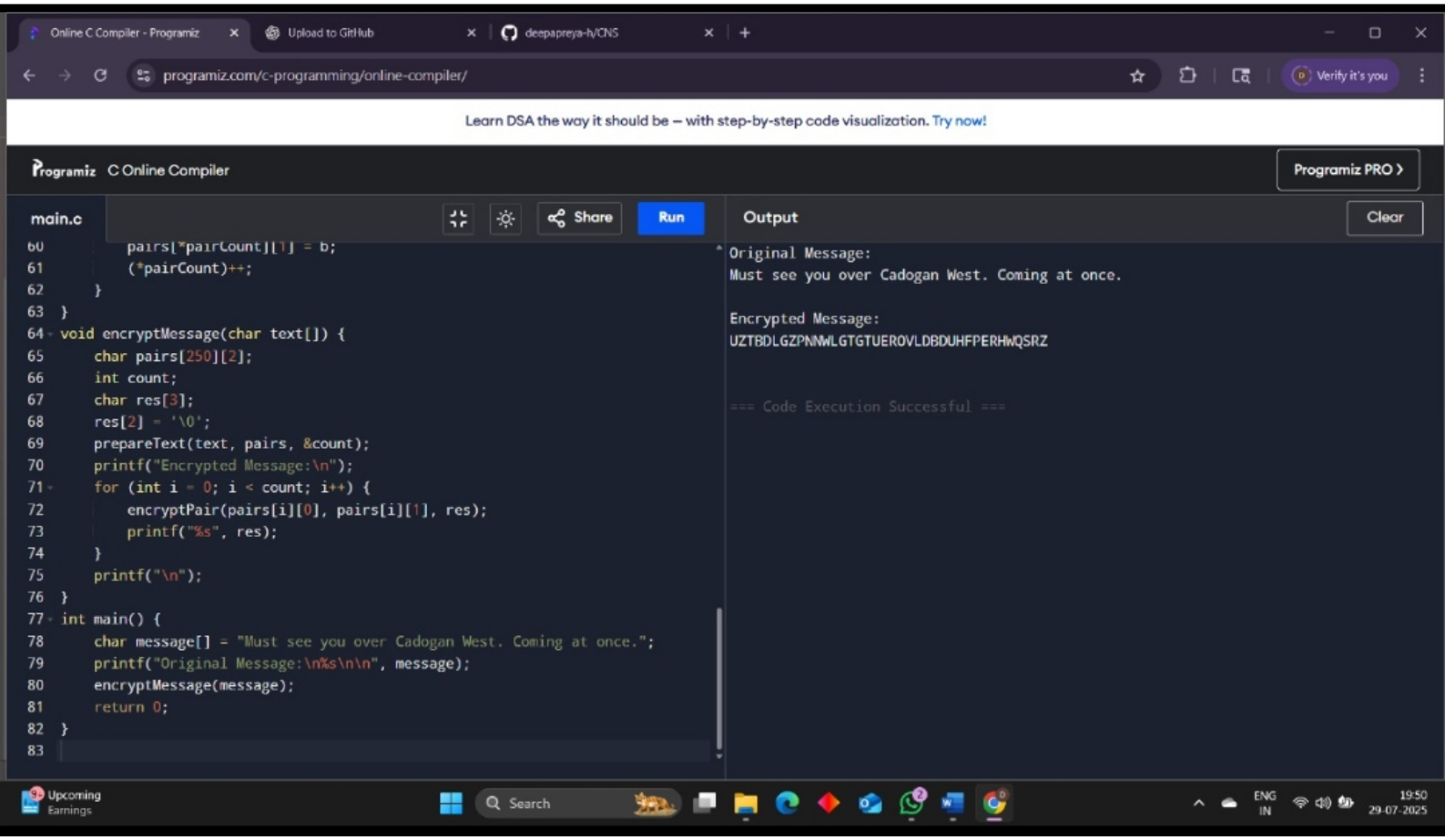
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Output
Clear
pairs[*pairCount][1] = b;
(*pairCount)++;
}
}
void encryptMessage(char text[]) {
char pairs[250][2];
int count;
char res[3];
res[2] = '\0';
prepareText(text, pairs, &count);
printf("Encrypted Message:\n");
for (int i = 0; i < count; i++) {
encryptPair(pairs[i][0], pairs[i][1], res);
printf("%s", res);
}
printf("\n");
}
int main() {
char message[] = "Must see you over Cadogan West. Coming at once.";
printf("Original Message:\n%s\n\n", message);
encryptMessage(message);
return 0;
}
Original Message:
Must see you over Cadogan West. Coming at once.
Encrypted Message:
UZTBDLGZPNWLGTGTUEROVLDBDUHFPERHWQSRZ
=== Code Execution Successful ===
Upcoming Earnings
Search
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