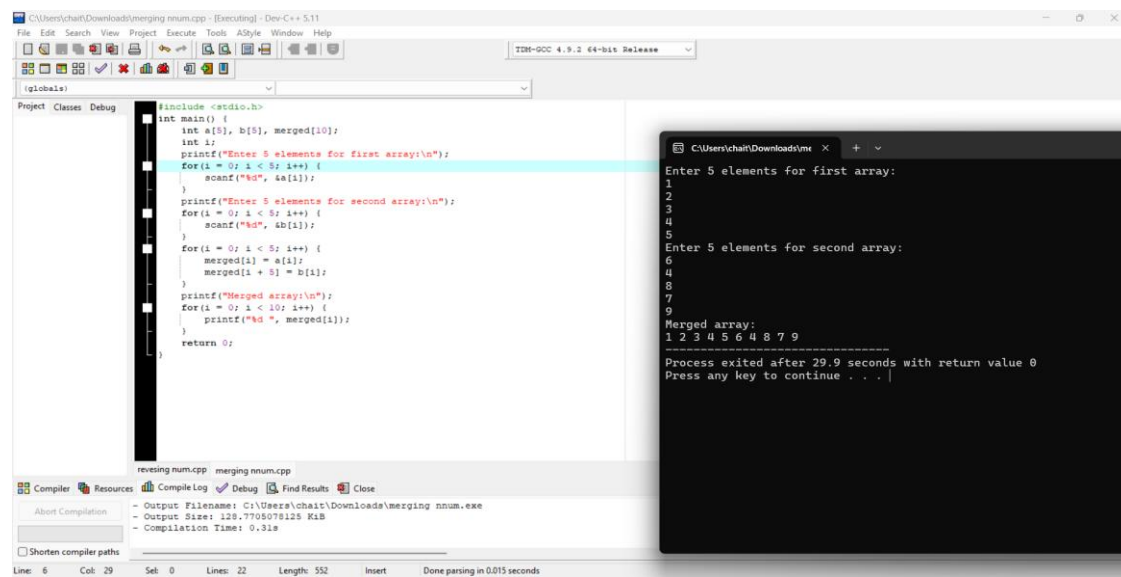EXPERIMENT 2:

MERGING THE ARRAYS

CODE:

```c
#include <stdio.h>

int main() {
    int a[5], b[5], merged[10];
    int i;
    printf("Enter 5 elements for first array:\n");
    for(i = 0; i < 5; i++) {
        scanf("%d", &a[i]);
    }
    printf("Enter 5 elements for second array:\n");
    for(i = 0; i < 5; i++) {
        scanf("%d", &b[i]);
    }
    for(i = 0; i < 5; i++) {
        merged[i] = a[i];          // Copy first 5 elements
        merged[i + 5] = b[i];      // Copy next 5 elements
    }
    printf("Merged array:\n");
    for(i = 0; i < 10; i++) {
        printf("%d ", merged[i]);
    }
    return 0;
}
```