**PROGRAM 9- LINEAR SEARCH METHOD**

#include <stdio.h>

int linearSearch(int a[], int n, int val) {

for (int i = 0; i < n; i++)

{

if (a[i] == val)

return i+1;

}

return -1;

}

int main() {

int a[] = {70, 40, 30, 11, 57, 41, 25, 14, 52};

int val = 41;

int n = sizeof(a) / sizeof(a[0]);

int res = linearSearch(a, n, val);

printf("The elements of the array are - ");

for (int i = 0; i < n; i++)

printf("%d ", a[i]);

printf("\nElement to be searched is - %d", val);

if (res == -1)

printf("\nElement is not present in the array");

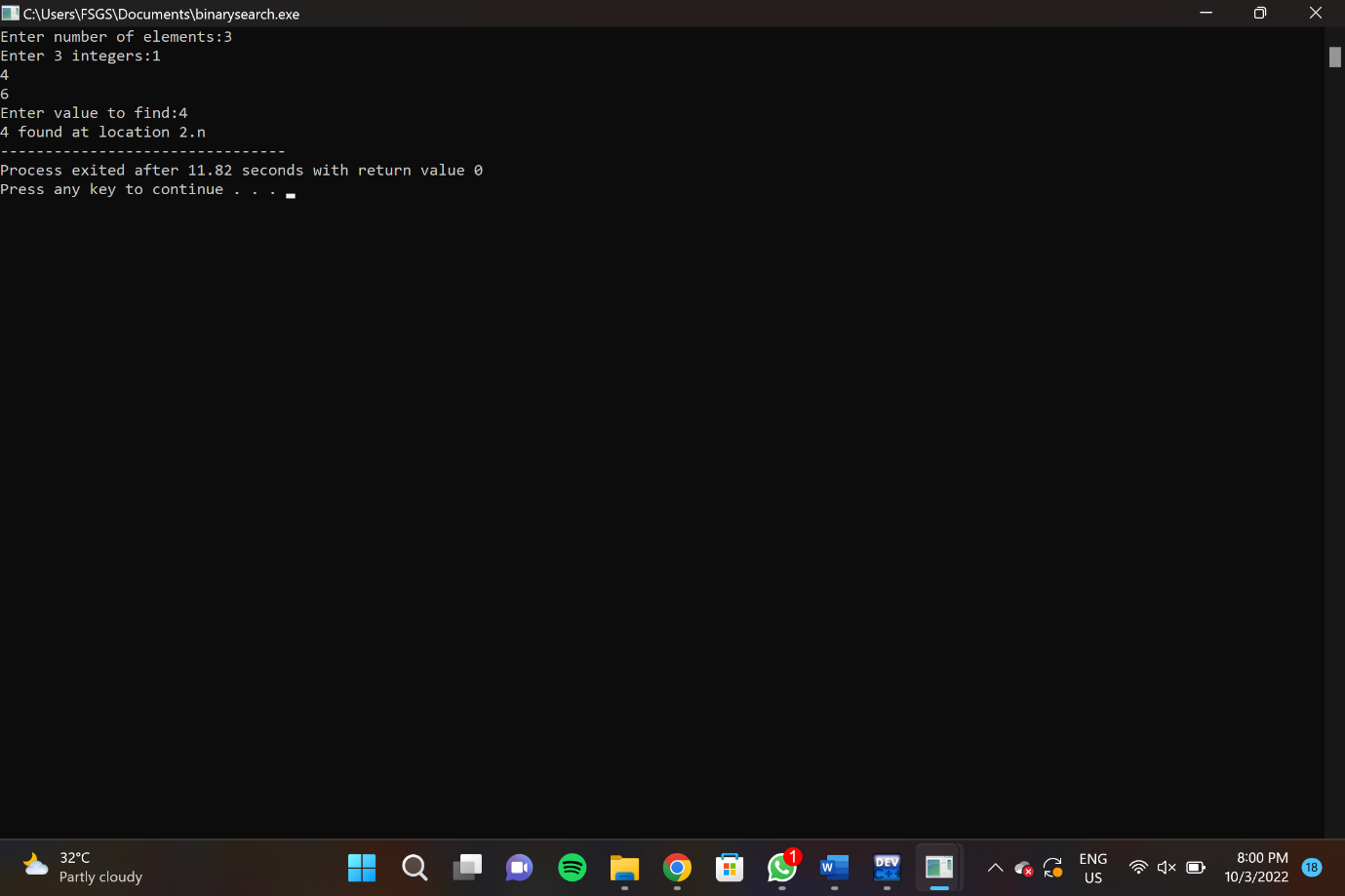
else

printf("\nElement is present at %d position of array", res);

return 0;

}

**OUTPUT:**

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