**EXPERIMENT NO : 2**

**Aim:-** To implement Selection Sort and Comparative analysis for large values of ‘n’

**Program:-**

#include <stdio.h>

int main(){

int array[100], n, c, d, position, t;

printf("Enter number of elements\n");

scanf("%d", &n);

printf("Enter %d integers\n", n);

for (c = 0; c < n; c++)

scanf("%d", &array[c]);

for (c = 0; c < (n - 1); c++) // finding minimum element (n-1) times {

position = c;

for (d = c + 1; d < n; d++){

if (array[position] > array[d])

position = d; }

if (position != c) {

t = array[c];

array[c] = array[position];

array[position] = t;

} }

printf("Sorted list in ascending order:\n");

for (c = 0; c < n; c++)

printf("%d\n", array[c]);

return 0;

}

**Output:**

