Experiment 2

Program : To implement Selection Sort and compartive analysis for large values of 'n'

**Code :**

#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 :**

