Experiment No. 3

Program : To implement quick sort and comparative analysis for large values of 'n'

**Code:**

#include <stdio.h>

#include<conio.h>

int main(void)

{

int n, i, j, temp;

int arr[64];

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

scanf("%d", &n);

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

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

{

scanf("%d", &arr[i]);

}

for (i = 1; i < n; i++)

{

j = i;

while (j > 0 && arr[j - 1] > arr[j])

{

temp = arr[j];

arr[j] = arr[j - 1];

arr[j - 1] = temp;

j--;

}

}

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

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

{

printf("%d\n", arr[i]);

}

return 0;

}

**Output:**

