Experiment No. 3- To implement quick sort and comparative analysis for large values of 'n'

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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;
}</pre>
```

Output:

```
Enter number of elements

Enter 5 integers

2

5

12

14

8

Sorted list in ascending order:

2

5

8

12

14

Enter number of elements

S
```