

## Experiment 2

**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 :

```

Enter number of elements
5
Enter 5 integers
12 5 1 78 9
Sorted Element In Selection Sort:
1
5
9
12
78

```