LAB 5- INSERTION SORT

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4-D

```c
#include <stdio.h>

int main()
{
    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 - 1; i++)
    {
        j = i;
        while ( j > 0 && arr[j-1] > arr[j])
        {
            temp   = arr[j];
            arr[j] = arr[j-1];
```

```c
            arr[j-1] = temp;

            j--;

        }

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

    for (i = 0; i <= n - 1; i++)

    {

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

    }

    return 0;

}
```