Ankith S Vaidya

DSA Assignment day 5

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| --- |
| #include<stdio.h> |
|  | void insertionSort(int a[], int number) { |
|  | int i, j, temp; |
|  | for(i = 1; i <= number - 1; i++) |
|  | { |
|  | for(j = i; j > 0 && a[j - 1] > a[j]; j--) |
|  | { |
|  | temp = a[j]; |
|  | a[j] = a[j - 1]; |
|  | a[j - 1] = temp; |
|  | } |
|  | } |
|  | } |
|  | int main() |
|  | { |
|  | int a[100], number, i; |
|  |  |
|  | printf("\n Please Enter the total Number of Elements : "); |
|  | scanf("%d", &number); |
|  |  |
|  | printf("\n Please Enter the Array Elements : "); |
|  | for(i = 0; i < number; i++) |
|  | scanf("%d", &a[i]); |
|  |  |
|  | insertionSort(a, number); |
|  | printf("\n Insertion Sort Result : "); |
|  | for(i = 0; i < number; i++) { |
|  | printf(" %d \t", a[i]); |
|  | } |
|  | printf("\n"); |
|  | return 0; |
|  | } |