 **Bangladesh Open University**

**School of Science and Technology**

**Bsc in Computer Science and Engineering**

**Lab report no. : lab-03.**

**Report on : Stack**

**Course title : Data Structure Lab**

**Course code : CSE21P6**

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sort an array using Bubble sort

**#include <stdio.h>**

**void bubble\_sort(int a[], int n) {**

**int i = 0, j = 0, tmp;**

**for (i = 0; i < n; i++) { // loop n times - 1 per element**

**for (j = 0; j < n - i - 1; j++) { // last i elements are sorted already**

**if (a[j] > a[j + 1]) { // swop if order is broken**

**tmp = a[j];**

**a[j] = a[j + 1];**

**a[j + 1] = tmp;**

**}**

**}**

**}**

**}**

**int main() {**

**printf("\n-------Short Arry using Bubbole Short Program-------\n");**

**int a[100], n, i;**

**printf("[+]Define your array Size ==>");**

**scanf("%d", &n);**

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

**{**

**printf("[+] Ok now you Enter for No in Arry[%d]==>",i);**

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

**}**

**bubble\_sort(a, n);**

**printf("\n-------======---------\n");**

**printf("[+] Operation Compleate ... Now your your Shorted Array is:===>");**

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

**{**

**printf("%d ", a[i]);**

**}**

**return 0;**

**}**

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