Experiment No: 02

Experiment Name: Sort an array using Bubble Sort

Code:

```
#include<stdio.h>
void swap(int *a, int *b) {
  int temp = *a;
  *a = *b;
  *b = temp;
}
int main(){
  int arr[5] = {4,6,90,45,9};
  joy(arr, 5);
  for(int i = 0; i < 5; i++) {
    printf("%d ", arr[i]);
  }
  printf("\n");
  return 0;
}
void joy(int arr[], int n){
  int flag;
  for(int ph=0; ph<n-1; ph++){
    flag = 0;
```

```
for(int i = 0; i<n-1-ph; i++){
    if(arr[i]>arr[i+1])
    {
       swap(&arr[i], &arr[i+1]);
       flag = 1;
      }
    }
    if (flag == 0)
      break;
}
```

Output:

```
Select "C:\Users\USER\Desktop\bubble sort\bin\Debug\bubble sort.exe" — X

4 6 9 45 90

Process returned 0 (0x0) execution time: 0.378 s

Press any key to continue.
```