LAB - 2

Bubble Sort

```
#include <stdio.h>
void swap ( int *xp, int *yp).
{ int temp = *xp;
  *xp = *yp
  *yp = temp; }

void bubblesort ( int arr[], int n) -
{ int i, j;
  for ( i=0; i<n-1; i++).

    for ( j= 0; j<n-i-1; j++)
      if ( arr[j] > arr[j+1]).
        swap( &arr[j], &arr[j+1]);

  }
void printArray ( int arr[ ], int size).
{ int i;
  for (i= 0; i< size; i++)
    { printf(" %d", arr[i]);
      printf ("\n"); }}
```

```
int main ()
{ int arr[11], i;
printf ("Enter elements of array(max 10)");
for (i=0; i<11; i++)
{ scanf ("%d", &arr[i]); }
int n = sizeof(arr)/sizeof(arr[0]);
bubblesort (arr, n);
printf ("Sorted array is (BUBBLE) :\n");
printfArray(arr, n);
return 0;
} //Selectionsort //
void selectionSort (int arr[], int n)
{ int i, j, minindex;
for (i=0; i<n-1; i++)
{ minind = i;
for (j = i+1; j<n; j++)
if (arr[j] < arr[minindex])
minindex = j;
swap()
```