**Subject Code:** KCS351

**Subject Name:** Data Structure using C Lab

**Semester:** III

**Session:** 2020-21

**LAB-4**

**List Of Programs**

1. **Program to implement bubble sort.**
2. **Program to implement Selection sort.**

**Bubble sort**

#include<stdio.h>

int main()

{ int count, temp, i, j, number[30];

scanf("%d",&count);

for(i=0;i<count;i++)

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

for(i=count-2;i>=0;i--){

for(j=0;j<=i;j++){

if(number[j]>number[j+1])

{

temp=number[j];

number[j]=number[j+1];

number[j+1]=temp;

}

}

}

printf("Sorted elements: ");

for(i=0;i<count;i++)

printf(" %d",number[i]);

return 0;

}

**Selection sort**

#include<stdio.h>

int main(){

int i, j, count, temp, number[25];

scanf("%d",&count);

for(i=0;i<count;i++)

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

// Logic of selection sort algorithm

for(i=0;i<count;i++){

for(j=i+1;j<count;j++){

if(number[i]>number[j]){

temp=number[i];

number[i]=number[j];

number[j]=temp;

}

}

}

printf("Sorted elements: ");

for(i=0;i<count;i++)

printf(" %d",number[i]);

return 0;

}