## Bubble Sort Program Source Code:

```
//Program for Bubble Sorting
#include<stdio.h>
void main()
{int i,j,n;
  printf("enter the size of array:");
  scanf("%d",&n);
  int a[n],c;
  printf("enter the values in array:");
for(i=0;i<n;i++)
scanf("%d",&a[i]);
{for(i=1;i<n;i++)
  \{for(j=0;j< n-i;j++)\}
  if(a[j]>a[j+1])
{
  c=a[j];
  a[j]=a[j+1];
  a[j+1]=c;
}}}
printf("Output:");
printf("\n");
for(i=0;i<n;i++)
{printf("%d\n",a[i]);}
//By Gaurav Yadav(11911038 | CSE)
```

## ❖ Bubble Sort Program Output:

```
C:\Users\gaurav\Desktop>gcc C:\Users\gaurav\Desktop\bubblesort.c

C:\Users\gaurav\Desktop>a
enter the size of array:8
enter the values in array: 9 8 7 6 5 4 3 2

Output:
2
3
4
5
6
7
8
9
```

## Selection Sort Program Source Code:

```
//Selection Sort Program
#include <stdio.h>
void main()
 int n,flag, t;
 printf("Enter the size of array:");
 scanf("%d", &n);
 int a[n];
 for (int i = 0; i < n; i++)
  scanf("%d", &a[i]);
 for (int i = 0; i < (n - 1); i++)
  flag = i;
  for (int j = i+ 1; j < n; j++)
   if (a[flag] > a[j])
      {flag= j;}
  if (flag != i)
  {
   t = a[i];
   a[i] = a[flag];
   a[flag] = t;
  }
 printf("Output:");
printf("\n");
for (int i = 0; i < n; i++)
{printf("%d\n", a[i]);}
//By Gaurav Yadav(11911038 | CSE)
```

## Selection Sort Program Output:

```
C:\Users\gaurav\Desktop>gcc C:\Users\gaurav\Desktop\Selectionsort.c

C:\Users\gaurav\Desktop>a
Enter the size of array:9
987 56657 34334 2336 54545 676 89 0 34
Output:
0
34
89
676
987
2336
34334
54545
56657
```