Name: Pranesh Chowdhury

ID: 202003112

Selection Sorting:

```
#include<stdio.h>
int main()
{
  int ara[100], n, t, min;
  printf("Enter Length of an array : ");
  scanf("%d", &n);
  printf("\nEnter Values of the array : ");
  for(int i=0; i<n; i++){
      scanf("%d", &ara[i]);
  }
  for(int i=0; i<n-1; i++){
     min = i;
    for(int j=i+1; j<n; j++){
       if(ara[j] < ara[min]){</pre>
         min = j;
       }
    }
    if(min!=i){
       t = ara[i];
       ara[i] = ara[min];
       ara[min] = t;
```

```
}

printf("\nAfter Selection Sorted : ");

for(int i=0; i<n; i++){
    printf("%d ",ara[i]);
}

printf("\n");

return 0;
}</pre>
```

Time Complexity: O(n^2)

Output: