

Program 4: Selection Sort Algorithm

```
package mounika4;
public class selectionSort {

    public static void main(String[] args) {

        int[] arr = {9,6,3,1,2,4,5};
        int length = arr.length;
        selectionSort(arr);
        System.out.println("The sorted elements are:");
        for(int i:arr){

            System.out.println(i);
        }

        public static void selectionSort(int[] arr){

            for(int i=0;i<arr.length-1;i++){

                int index =i;
                for(int j=i+1;j<arr.length;j++){
                    if(arr[j]<arr[index]){

                        index =j;
                    }

                }
                int smallNumber = arr[index];
                arr[index]= arr[i];
                arr[i]= smallNumber;
            }
        }
    }
}
```

