Phase-1 Practice Project: Assisted Practice

4. Writing a program in java implementing the selection sort algorithm.

Source code:

```
public class SelectionSort {
        void sort(int arr[])
        {
                 int n=arr.length;
                 for(int i=0;i<n-1;i++)
                 {
                         int min_idx=i;
                         for (int j=i+1;j<n;j++) {
                                  if(arr[j]<arr[min_idx])</pre>
                                           min_idx=j;
                         int temp=arr[min_idx];
                         arr[min_idx]=arr[i];
                         arr[i]=temp;
                 }
        void printArray(int arr[])
        {
                 int n=arr.length;
                 for(int i=0;i<n;++i)
                         System.out.print(arr[i]+" ");
                 System.out.println();
        }
        public static void main(String args[]) {
                 SelectionSort ob=new SelectionSort();
                 int arr[]= {46,52,21,76,11};
                 ob.sort(arr);
                 System.out.println("Sorted array");
                 ob.printArray(arr);
        }
}
Output:
```

