**ABSTRACT**

**SELECTION SORTING**

Aim :

To develop a program to sort a list of names randomly by using Selection Sort.

Problem :

Given an unsorted list of names, and the task is to sort this list in alphabetical order using the Selection Sort algorithm. The Selection Sort algorithm will repeatedly select the smallest name from the unsorted portion of the list and move it to the beginning of the sorted portion until the entire list is sorted.

Methodology :

Selection Sort begins by identifying the smallest name from the unsorted list and then swapping it with the first unsorted item. This process will go on until all positions are filled and sorted in alphabetical order.

Data Structure And Language :

The data structure used for storing the list of names is typically a 2D array of characters.The language used for the implementation is HTML,CSS,Java Script.

Operation on Data Structure :

Operations on the list include traversing to find the smallest name, comparing names alphabetically, and swapping the smallest name with the first unsorted name. These steps are repeated until the list is fully sorted.

Student Name and Roll Number of the Team :

Ritvik T G

23ISR048

Jaghadeep S N

23ISR019

Pranesh B R

23ISR042