**ASSIGNMENT NO.3**

**SELECTION SORT:-**

import java.io.\*;

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])

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[] = {64,25,12,22,11};

ob.sort(arr);

System.out.println("Sorted array");

ob.printArray(arr);

}

}

**output:-**

Sorted array

11 12 22 25 64