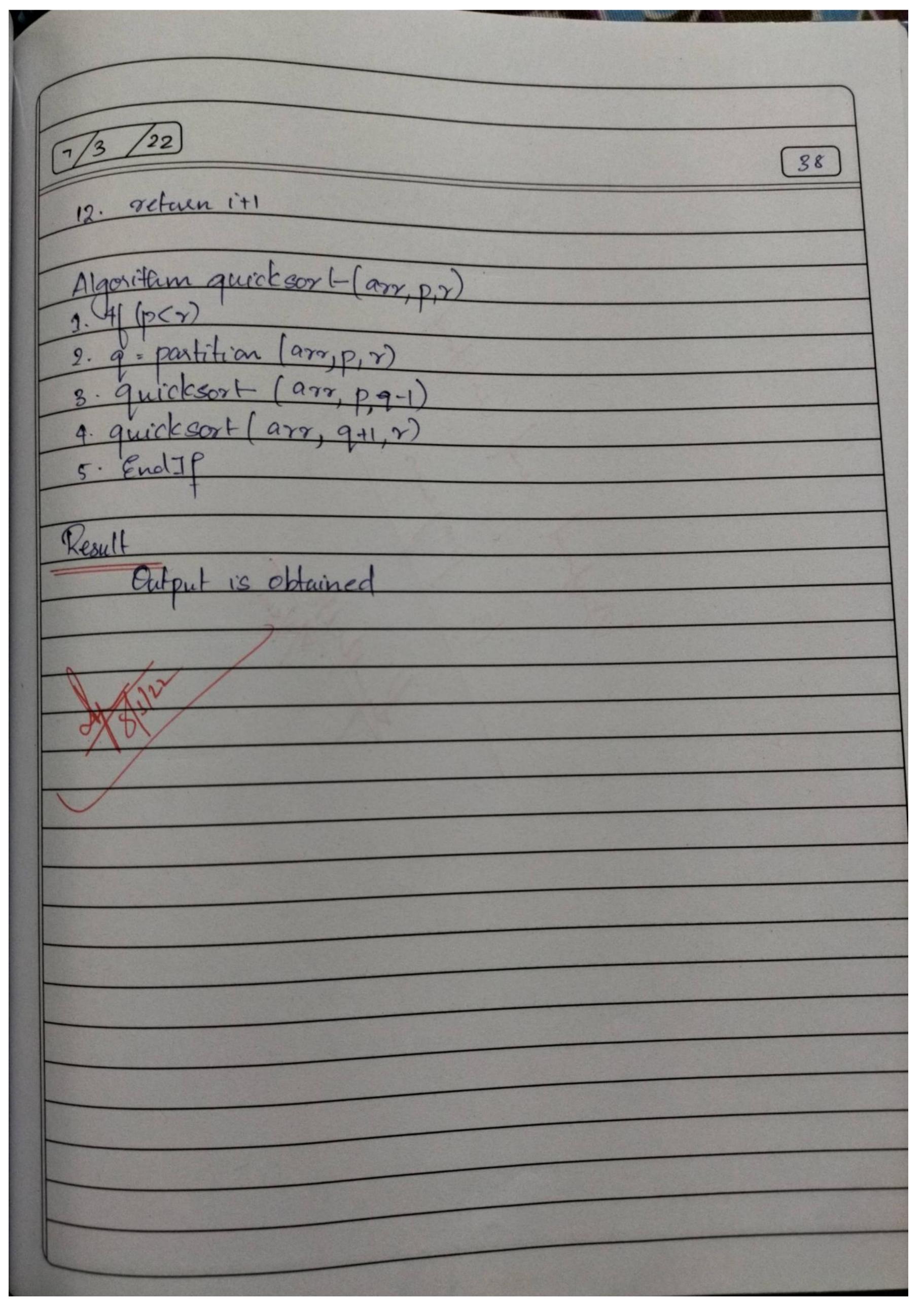
EXPERIMENT NO: 13 QUICK SORT algorithm for sosting a list of names in ascending Rist in sorted order. Algorithm. Algorithm partition (arr, p, r) (arr[i] (= arr[i]) swap (arr [i] arr [j]) 10 swap [ arr [iti], arr [r]



Scanned by TapScanner

Enter dange:3 Devika Ajay Amal -- x After amick Sont-x-Ajay Amal Devika.

```
11361
//Dovika B
 //Section F : Qn 2
 //Quick Sort
  import java.util.Scannor;
 class quick[
        public static void quickSort (String A[], int p, int r) {
               if(per)(
               int q - partition(A, P, r);
               quickSort (A, p, q-1);
               quickSort (A, q+1, r);
        public static int partition (String A[], int p, int r);
               String x - A[r];
               int i - p-1;
               for (int j-p; j <- r-1; j++) {
                     if(A[j].comparoTo(x) <-0){
                            i - i + 1;
                            String temp - A[i];
                            \Lambda[i] - \Lambda[j];
                            \Lambda[j] - temp;
               String temp - A[i+1];
               \Lambda[i+1] - \Lambda[r];
               A[r] = t.emp;
               roturn i +1;
        public static void main (String args[]) {
               Scanner sc - new Scanner (System.in);
               System.out.print("Enter the Range :");
               int n - sc.nextInt();
               sc.nextLine();
               String A[] - new String[n];
               System.out.println("Enter the names");
               for (int i -0; i < n ; i++) {
                     A[i] - sc.noxtLino();
              quickSort (A, 0, n-1);
              System.out.println("\n---X After Quick Sort X---\n");
              for (int i -0; i < n; i++)
                     System.out.println(A[i]);
```