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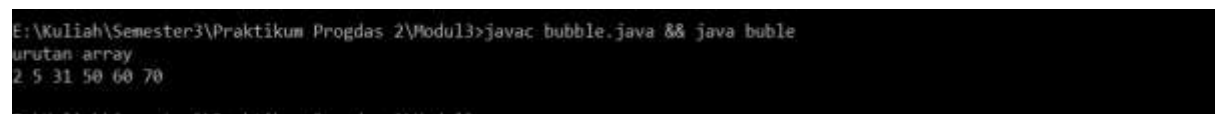
NRP : 17111051

Tugas 3 – Praktikum Pemrograman Dasar 2

Script :

```
1. class bubble{
2.
3.     void bsort (int ar[]){
4.         int a = ar.length;
5.         for(int i = 0; i < a-1;i++)
6.             for (int j= 0; j< a-i-1; j++)
7.                 if(ar[j] > ar[j+1]){
8.                     int temp = ar[j];
9.                     ar[j] = ar[j+1];
10.                    ar[j+1] = temp;
11.                }
12.    }
13.    void Print (int ar[]){
14.        int a = ar.length;
15.        for (int i = 0; i < a; ++i)
16.            System.out.print(ar[i]+" ");
17.        System.out.println();
18.    }
19.    public static void main(String[] args) {
20.        bubble vx = new bubble();
21.        int ar[] = {2, 5, 60, 31, 50, 70};
22.        vx.bsort(ar);
23.        System.out.println("urutan array");
24.        vx.Print(ar);
25.    }
26. }
```

Screenshot :



```
E:\Kuliah\Semester3\Praktikum Progdas 2\Modul3>javac bubble.java && java bubble
urutan array
2 5 31 50 60 70
```

2.

Script :

```
1. public class quick {
2.     node head;
3.     node sorted;
4.
5.     class node{
6.
7.         int a;
8.         node next;
9.
10.        public node(int a){
11.            this.a = a;
```

```

12.     }
13. }
14. void push(int a){
15.     node ab = new node(a);
16.     ab.next = head;
17.     head = ab;
18. }
19.
20. void sort(node headref){
21.     sorted = null;
22.     node current = headref;
23.     while (current != null){
24.         node next = current.next;
25.         sort_in(current);
26.         current = next;
27.     }
28.     head = sorted;
29. }
30. void sort_in(node ab){
31.     if (sorted == null || sorted.a >= ab.a){
32.         ab.next = sorted;
33.         sorted = ab;
34.     } else {
35.         node current = sorted;
36.         while (current.next != null && current.next.a < ab.a){
37.             current = current.next;
38.         }
39.         ab.next = current.next;
40.         current.next = ab;
41.     }
42. }
43. void print(node head){
44.     while (head != null){
45.         System.out.print(head.a + " ");
46.         head = head.next;
47.     }
48. }
49.
50. public static void main(String[] args) {
51.     quick list = new quick();
52.     list.push(2);
53.     list.push(31);
54.     list.push(25);
55.     list.push(3);
56.     list.push(60);
57.     System.out.println("Sebelum quicksort ");
58.     list.print(list.head);
59.     list.sort(list.head);
60.     System.out.println("");
61.     System.out.println("Sesudah quicksort");
62.     list.print(list.head);
63. }
64. }

```

Screenshot :

```

E:\Kuliah\Semester3\Praktikum Progdas 2\Modul3>javac quick.java && java quick
Sebelum quicksort
60 3 25 31 2
Sesudah quicksort
2 3 25 31 60

```