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KELAS : 2B
NIM : 20090009
TUGAS : ILUSTRASI TUGAS PRAKTIKUM 4

1). Insertion Sort.

* Berikut data yang akan diurutkan :

25	7	9	13	3
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* Cek apakah $i(1) = 7 \rightarrow 7 < 25$ (True) pindah ke $i(0)$

Step 0

25	7	9	13	3
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Step 1.

7	25	9	13	3
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* Cek apakah $i(2) = 9 \rightarrow 9 < 25$ (True) pindah ke $i(1) \rightarrow 9 < 7$ (False) maka $i(2) = 9$ pindah di $i(1)$.

Step 2

7	9	25	13	3
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* Selanjutnya apakah $i(3) = 13 \rightarrow 13 < 25$ (True) pindah ke indeks 2 $\rightarrow 13 < 9$ (False) ; $13 < 7$ (False) ; maka $i(3) = 13$ pindah ke $i(2)$.

Step 3

7	9	13	25	3
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* Cek apakah $i(4) = 3 \rightarrow 3 < 25$ (True) ; $3 < 13$ (True) ; $3 < 9$ (True) ; $3 < 7$ (True) ; maka $i(4) = 3$ pindah ke indeks 0

Step 4

3	7	9	13	25
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3	7	9	13	25
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2) Bubble Sort

Data yang akan diurutkan :

25 7 9 13 3

$i=1 \rightarrow$ J:4 25 7 9 13 3

J:3 25 7 9 3 13

J:2 25 7 3 9 13

J:1 25 3 7 9 13

$i=2 \rightarrow$ J:4 3 25 7 9 13

J:3 3 25 7 9 13

J:2 3 25 7 9 13

$i=3 \rightarrow$ J:4 3 7 25 9 13

~~J:3~~

J:3 3 7 25 9 13

$i=4 \rightarrow$ J:4 3 ~~7~~ 9 25 13

Akhir \rightarrow 3 7 9 13 25

3). Selection Sort.

Data yg akan di urutkan

25	7	9	13	3
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3	7	9	13	25
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3	7	9	13	25
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3	7	9	13	25
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3	7	9	13	25
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3	7	9	13	25
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4). Shell Sort.

Data yang akan di urutkan.

25	7	9	13	3
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Jarak 5 $\rightarrow 5/2 = 2,5 \sim \downarrow 2$

25	7	9	13	3
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3	7	9	13	25
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Jarak 1 $\rightarrow 2/2 = 1$

3	7	9	13	25
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\rightarrow Insertion Sort.

3	7	9	13	25
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3	7	9	13	25
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3	7	9	13	25
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3	7	9	13	25
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