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TUGAS ALGORITMA PEMROGRAMAN 2



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**PROGRAM STUDI SISTEM INFORMASI
FAKULTAS SAINS DAN TEKNOLOGI TERAPAN
UNIVERSITAS AHMAD DAHLAN
YOGYAKARTA
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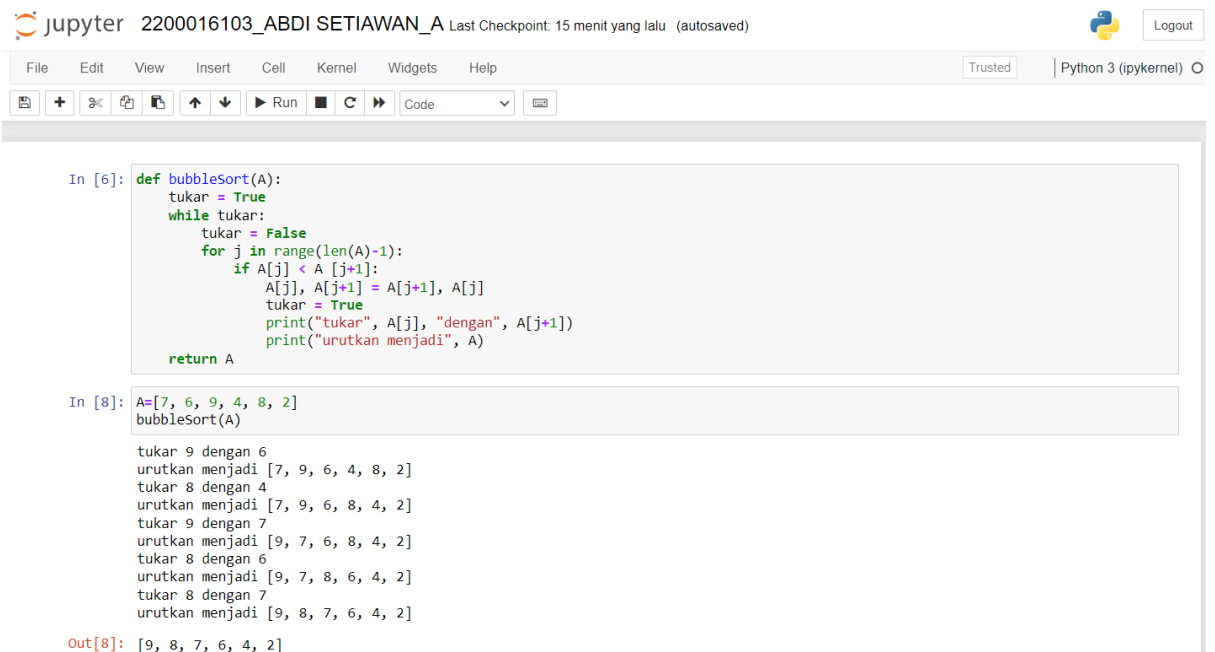
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A. Kode Pemrograman dan Screenshoot Output.

```
def bubbleSort(A):
    tukar = True
    while tukar:
        tukar = False
        for j in range(len(A)-1):
            if A[j] < A [j+1]:
                A[j], A[j+1] = A[j+1], A[j]
                tukar = True
            print("tukar", A[j], "dengan", A[j+1])
            print("urutkan menjadi", A)
    return A
```



The screenshot shows a Jupyter Notebook interface. At the top, it says "Jupyter 2200016103_ABDI SETIAWAN_A Last Checkpoint: 15 menit yang lalu (autosaved)". The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and code execution. The main area displays two input cells. The first cell, labeled "In [6]:", contains the definition of the bubbleSort function. The second cell, labeled "In [8]:", contains the execution of the function with a list A = [7, 6, 9, 4, 8, 2]. The output of the function is displayed below the second cell, showing the step-by-step swaps and the state of the list A after each swap.

```
In [6]: def bubbleSort(A):
        tukar = True
        while tukar:
            tukar = False
            for j in range(len(A)-1):
                if A[j] < A [j+1]:
                    A[j], A[j+1] = A[j+1], A[j]
                    tukar = True
                print("tukar", A[j], "dengan", A[j+1])
                print("urutkan menjadi", A)
            return A

In [8]: A=[7, 6, 9, 4, 8, 2]
        bubbleSort(A)

        tukar 9 dengan 6
        urutkan menjadi [7, 9, 6, 4, 8, 2]
        tukar 8 dengan 4
        urutkan menjadi [7, 9, 6, 8, 4, 2]
        tukar 9 dengan 7
        urutkan menjadi [9, 7, 6, 8, 4, 2]
        tukar 8 dengan 6
        urutkan menjadi [9, 7, 8, 6, 4, 2]
        tukar 8 dengan 7
        urutkan menjadi [9, 8, 7, 6, 4, 2]

Out[8]: [9, 8, 7, 6, 4, 2]
```

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B. Flowchart

