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Kelas : IF-44-01

Screenshot Codingan dan Hasil Output

mahasiswa.cpp

```

mahasiswa.cpp X mahasiswa.h X main.cpp X
1  #include "mahasiswa.h"
2
3  void inputData_1301202398(mahasiswa &M) {
4      int i = 0;
5
6      cout << "Tuliskan NIM: ";
7      cin >> M.NIM;
8
9      while (i < Max){
10         cout << "Nilai " << i+1 << ": ";
11         cin >> (M.Nilai[i]);
12         i++;
13     }
14 }
15
16 float mean_1301202398(mahasiswa M) {
17     float rata, jumlah;
18     int i;
19
20     for (i=0; i<Max; i++){
21         jumlah = jumlah + M.Nilai[i];
22     }
23     rata = jumlah / Max;
24     return rata;
25 }
26
27 void showData_1301202398(mahasiswa M) {
28     int i;
29
30     cout << endl;
31     cout << "Data Mahasiswa" << endl;
32     cout << "NIM: " << M.NIM << endl;
33     cout << "Nilai: ";
34     for (i=0; i<Max; i++){
35         cout << M.Nilai[i] << " ";
36     }
37     cout << endl;
38 }
39
```

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mahasiswa.h

```
mahasiswa.cpp X mahasiswa.h X main.cpp X
1  #ifndef MAHASISWA_H_INCLUDED
2  #define MAHASISWA_H_INCLUDED
3  #include <iostream>
4
5  using namespace std;
6
7  const int Max = 5;
8
9  struct mahasiswa{
10     string NIM;
11     float Nilai[Max];
12 };
13
14 void inputData_1301202398 (mahasiswa &M);
15 float mean_1301202398 (mahasiswa M);
16 void showData_1301202398 (mahasiswa M);
17
18
19 #endif // MAHASISWA_H_INCLUDED
20
```

main.cpp

```
mahasiswa.cpp X mahasiswa.h X main.cpp X
1  #include "mahasiswa.h"
2
3  int main()
4  {
5      mahasiswa x;
6      inputData_1301202398 (x);
7      showData_1301202398 (x);
8      cout << "Dengan Rata-Rata Nilai: " << mean_1301202398 (x) << endl;
9  }
10
```

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Hasil Output

```
"C:\Users\haikal\Documents\Kuliah\Semester 3\Strukdat\TP3\TP3\bin\Debug\TP3.exe"
Tuliskan NIM: 1301209999
Nilai 1: 60
Nilai 2: 55
Nilai 3: 98
Nilai 4: 45
Nilai 5: 85

Data Mahasiswa
NIM: 1301209999
Nilai: 60 55 98 45 85
Dengan Rata-Rata Nilai: 68.6

Process returned 0 (0x0)   execution time : 19.489 s
Press any key to continue.
```

```
"C:\Users\haikal\Documents\Kuliah\Semester 3\Strukdat\TP3\TP3\bin\Debug\TP3.exe"
Tuliskan NIM: 1301202398
Nilai 1: 100
Nilai 2: 90
Nilai 3: 80
Nilai 4: 70
Nilai 5: 75

Data Mahasiswa
NIM: 1301202398
Nilai: 100 90 80 70 75
Dengan Rata-Rata Nilai: 83

Process returned 0 (0x0)   execution time : 9.460 s
Press any key to continue.
```