

UAS PRAKTIKUM KONSEP PEMROGRAMAN



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Soal !!!

1. Buatlah program untuk mengolah nilai mata kuliah semester pertama mahasiswa. Masukkan masukkan berapa jumlah mahasiswa (max 15) dan jumlah mata kuliah (max 8). Hitung nilai rata-rata per mahasiswa dan nilai rata-rata per mata kuliah.

Jawab :

Listing Program :

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#define MAKS 30
```

```
void cariRata(float[MAKS][15]);
```

```
void tampilkan(float[MAKS][15]);
```

```
main()
```

```
{
```

```
    float nilai[MAKS][15] = {{1, 70, 70, 68},{2, 80, 80, 74},{3, 60, 90, 63},{4, 75, 85, 90}, {5, 76, 81, 88}, {6, 71, 82, 77},{7, 75, 85, 90}, {8, 78, 87, 88}, {9, 75, 80, 90}, {10, 78, 85, 91}, {11, 74, 83, 80}, {12, 75, 87, 87}, {13, 75, 89, 90}, {14, 75, 85, 90}, {15, 79, 88, 95}};
```

```
    tampilkan(nilai);
```

```
    cariRata(nilai);
```

```
}
```

```
void tampilkan(float data[MAKS][15])
```

```
{
```

```
    int i,j,jumData = 8;
```

```

printf("Daftar Nilai:\n\n");
printf("-----\n");
printf("| %2s | %10s | %10s | %10s | %10s |\n","No","Konsep Pemrograman","Matematika
1","Desain Web","Matematika Diskrit","Praktikum Konsep Pemrograman","Logika &
Algoritma","Dasar Sistem Informasi","Konsep Teknologi Informasi");
printf("-----\n");
for(i=0;i<jumData;i++)
printf("| %2d | %10.0f | %10.0f | %10.0f |\n",i+1,data[i][1],data[i][2],data[i][3], data[i][4],
data[i][5], data[i][6], data[i][7], data[i][8]);
printf("-----\n");
}
void cariRata(float data[MAKS][15])
{
int i,j,jumData = 8;
float total = 0;
printf("\nNilai Rata-rata:\n\n");
printf("-----\n");
printf("| %2s | %12s\n","No","Rata-rata |");
printf("-----\n");
for(i=0;i<jumData;i++)
{
total = 0;
for(j=0;j<3;j++)
{
total = total + data[i][j];
}
printf("| %2d | %10.2f |\n",i+1,total/j);
}
printf("-----\n");
}

```

Output :

```
D:\UAS3\bin\Debug\UAS3.exe
| No | Konsep Pemrograman | Matematika 1 | Desain Web |
-----
| 1 | 70 | 70 | 68 |
| 2 | 80 | 80 | 74 |
| 3 | 60 | 90 | 63 |
| 4 | 75 | 85 | 90 |
| 5 | 76 | 81 | 88 |
| 6 | 71 | 82 | 77 |
| 7 | 75 | 85 | 90 |
| 8 | 78 | 87 | 88 |
-----

Nilai Rata-rata:

| No | Rata-rata |
-----
| 1 | 47.00 |
| 2 | 54.00 |
| 3 | 51.00 |
| 4 | 54.67 |
| 5 | 54.00 |
| 6 | 53.00 |
| 7 | 55.67 |
| 8 | 57.67 |
-----

Process returned 0 (0x0)   execution time : 0.043 s
Press any key to continue.
```