Labcheck 3 Modul 5

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Program 1

```cpp
#include <iostream>
#include <string.h>
#include <string>
using namespace std;

void pemisahan(string);

int main()
{
    string nim;
    cout<<"Masukkan NIM Lengkap mu : ";
    cin>>nim;
    pemisahan(nim);
    return 0;

}

void pemisahan(string nomor)
{
    char angkatan[2], niu[6], kode_fakultas[2], nif[5];
    size_t length = nomor.copy(angkatan,2,0);
    angkatan[length]='\0';
    cout<<"Angkatan      :" <<angkatan<<endl;
    length = nomor.copy(niu,6,3);
    niu[length]='\0';
    cout<<"NIU           :"<<niu<<endl;
    length = nomor.copy(kode_fakultas,2,10);
    kode_fakultas[length]='\0';
    cout<<"Kode Fakultas:"<<kode_fakultas<<endl;
    length = nomor.copy(nif,5,13);
    nif[length]='\0';
    cout<<"NIF           :"<<nif<<endl;
}
```

Output :

```
Masukkan NIM Lengkap mu : 21/481767/TK/53170
Angkatan     :21
NIU          :481767
Kode Fakultas:TK
NIF          :53170
```

Program 2

```cpp
#include <iostream>
#include <string.h>
#include <string>
using namespace std;

string nim, mk1, mk2, mk3, mk4, mk5;
int sks1, sks2, sks3, sks4, sks5;
float nilai1, nilai2, nilai3, nilai4, nilai5;
float totalnilai, totalsks;

void input()
{
    string temp;
    cout<<"Masukkan NIM : ";
    cin>>nim;
    getline(cin,temp);
    cout << " nama Mata Kuliah  1  : ";
    getline(cin,mk1);
    cout << " SKS Mata Kuliah   1  : ";
    cin >> sks1;
    cout << " Nilai Mata Kuliah 1  : ";
    cin >> nilai1;
    cout << " nama Mata Kuliah  2  : ";
    getline(cin,mk2);
    cout << " SKS Mata Kuliah   2  : ";
    cin >> sks2;
    cout << " Nilai Mata Kuliah 2  : ";
    cin >> nilai2;
    cout << " nama Mata Kuliah  3  : ";
    getline(cin,mk3);
    cout << " SKS Mata Kuliah   3  : ";
    cin >> sks3;
    cout << " Nilai Mata Kuliah 3  : ";
    cin >> nilai3;
    cout << " nama Mata Kuliah  4  : ";
    getline(cin,mk4);
    cout << " SKS Mata Kuliah   4  : ";
    cin >> sks4;
    cout << " Nilai Mata Kuliah 4  : ";
    cin >> nilai4;
    cout << " nama Mata Kuliah  5  : ";
    getline(cin,mk5);
    cout << " SKS Mata Kuliah   5  : ";
```

```cpp
    cin >> sks5;
    cout << " Nilai Mata Kuliah 5  : ";
    cin >> nilai5;

    totalsks = sks1 + sks2 + sks3 + sks4 + sks5;
    totalnilai = nilai1 + nilai2 + nilai3 + nilai4 + nilai5;
}

float ipk()
{
    input();
    float ipk = totalnilai/totalsks;
    return ipk;
}

void cetak()
{
    float ipkcetak=ipk();
    cout<<"NIM  : "<<nim<<endl;
    cout<<"IPK  : "<<ipkcetak;
}

int main()
{
    cetak();
    return 0;
}
```

Ouput

```
Masukkan NIM : 3123123123
 nama Mata Kuliah  1  : 123123
 SKS Mata Kuliah   1  : 1231231
 Nilai Mata Kuliah 1  : 12312312
 nama Mata Kuliah  2  :  SKS Mata Kuliah   2  : 123123
 Nilai Mata Kuliah 2  : 123123
 nama Mata Kuliah  3  :  SKS Mata Kuliah   3  : 123123
 Nilai Mata Kuliah 3  : 123123
 nama Mata Kuliah  4  :  SKS Mata Kuliah   4  : 123123
 Nilai Mata Kuliah 4  : 123123
 nama Mata Kuliah  5  :  SKS Mata Kuliah   5  : 123123
 Nilai Mata Kuliah 5  : 123123
NIM  : 3123123123
IPK  : 7.42857
```