LAPORAN PRAKTIKUM ALGORITMA DAN PEMROGRAMAN



Disusun Oleh:

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PROGRAM STUDI S-1 TEKNIK INFORMATIKA FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS PADJADJARAN JATINANGOR

2021

A. Latihan

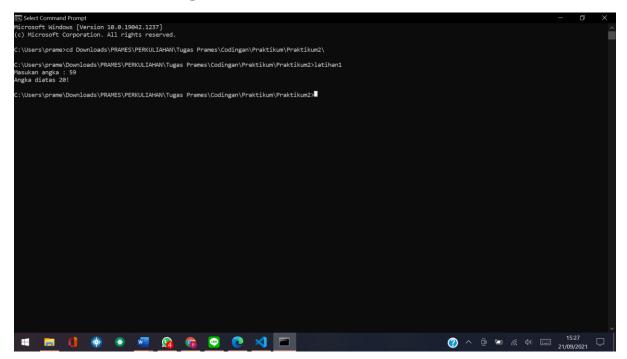
1. Latihan 1

```
/*
Nama Program : Praktikum2
Nama : Prames Ray Lapian
NPM : 140810210059
Tanggal Buat : 20 September 2021
Deskripsi : Latihan1
*/

#include <iostream>
using namespace std;
int main()
{
   int angka;
   cout << "Masukan angka : ";
   cin >> angka;

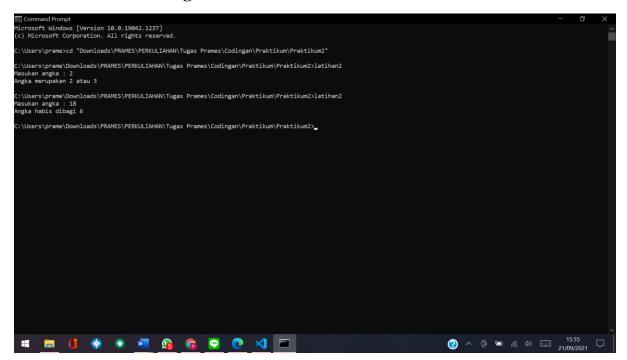
if (angka > 20) {
   cout << "Angka diatas 20!\n";
   }
}
```

Screenshot Program:

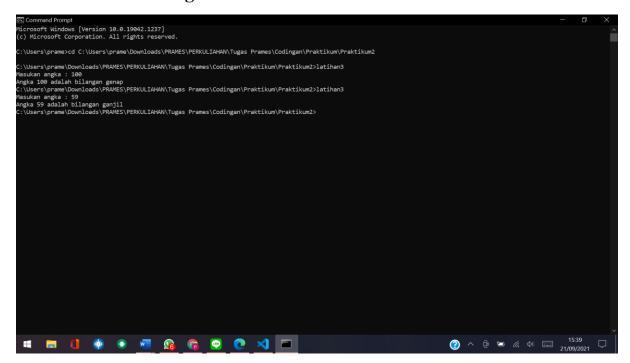


```
int main()
{
```

```
int angka;
cout << "Masukan angka : ";
cin >> angka;
if (angka == 2 || angka == 3)
{
   cout << "Angka merupakan 2 atau 3\n";
}
   if (angka % 2 == 0 && angka % 3 == 0)
{
   cout << "Angka habis dibagi 6\n";
}
</pre>
```



```
int main()
{
    int angka;
    cout << "Masukan angka : ";
    cin >> angka;
    if (angka % 2 == 0)
    {
        cout << "Angka " << angka << " adalah bilangan genap";
    }
    else
    {
        cout << "Angka " << angka << " adalah bilangan ganjil";
    }
}</pre>
```



```
int main()
{
   int angka;

   cout << "Masukan angka : ";
   cin >> angka;

   if (angka < 10)
   {
      cout << "Angka lebih kecil dari 10\n";
   }
      else if (angka < 30)
   {
      cout << "Angka lebih kecil dari 30\n";
   }
      else if (angka < 60)
   {
      cout << "Angka lebih kecil dari 60\n";
   }
}</pre>
```

Screenshot Program:

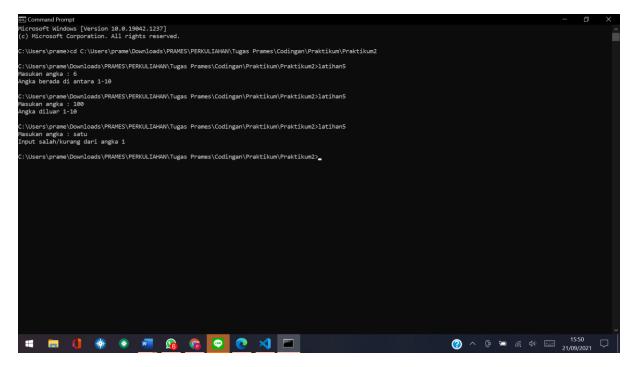
```
| Command Prompt
| Comm
```

```
int main()
{
    int angka;

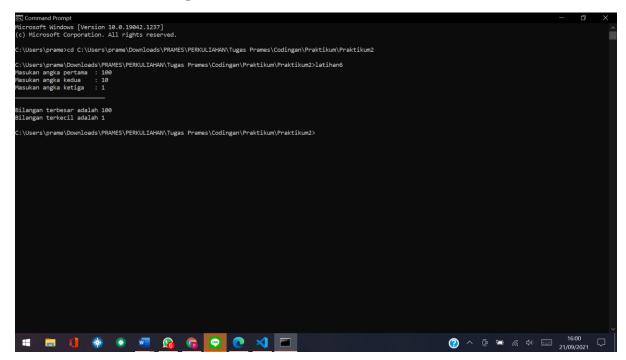
    cout << "Masukan angka : ";
    cin >> angka;

    if (angka >= 1)
    {
        if (angka <= 10)
        {
            cout << "Angka berada di antara 1-10\n";
        }
            else
        {
            cout << "Angka diluar 1-10\n";
        }
        else {
            cout << "Input salah/kurang dari angka 1\n";
        }
}</pre>
```

Screenshot Program:



```
if (c < b && c < a)
{
  cout << "Bilangan terkecil adalah " << c << "\n";
}
  else if (b < a)
{
    cout << "Bilangan terkecil adalah " << b << "\n";
}
  else
{
    cout << "Bilangan terkecil adalah " << a << "\n";
}
}</pre>
```



B. Tugas

1. Tugas 1

```
/*
Nama Program : Nilaimutu
Nama : Prames Ray Lapian
NPM : 140810210059
Tanggal Buat : 20 September 2021
Deskripsi : Membuat program penentu huruf mutu
*/
#include <iostream>
using namespace std;
```

```
int main()
    float tugas, kuis, uts, uas, nilai;
    char hurufmutu;
    cout << "Masukkan nilai Tugas: "; cin >> tugas;
    cout << "Masukkan nilai Kuis: "; cin >> kuis;
    cout << "Masukkan nilai UTS: "; cin >> uts;
    cout << "Masukkan nilai UAS: "; cin >> uas;
    nilai = ((tugas * 0.25) + (kuis * 0.2) + (uts * 0.25) + (uas * 0.3));
    if (nilai >= 80 && nilai <= 100)
        hurufmutu = 'A';
    else if (nilai >= 68 && nilai < 80)
        hurufmutu = 'B';
    else if (nilai >= 56 && nilai < 68)
        hurufmutu = 'C';
    else if (nilai >= 45 && nilai < 56)
        hurufmutu = 'D';
    else if (nilai >= 0 && nilai < 45)
        hurufmutu = 'E';
    if (nilai >= 0 && nilai <= 100)
        cout << "Nilai akhir = " << nilai << " (" << hurufmutu << ")\n";</pre>
    else {
        cout << "Yang bener atuh inputnya! Sok restart program ini, terus inpu</pre>
t nilainya yang bener!\n";
```

```
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Signature (Version 10.0.19842.1237)
Signature (Command Prompt)
Signature (Comparation All rights reserved.

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```

2. Tugas 2

```
Nama Program : persamaankuadrat
Nama
                : 140810210059
NPM
Tanggal Buat : 20 September 2021

Deskripsi : Membuat program pencari akar akar persamaan kuadrat
#include <iostream>
#include <math.h>
using namespace std;
int main()
    float a,b,c,determinan,x1,x2;
    menu :
    cout << "Masukkan nilai a : "; cin >> a;
    cout << "Masukkan nilai b : "; cin >> b;
    cout << "Masukkan nilai c : "; cin >> c;
    if (a == 0)
        cout << "a gaboleh 0. sok input ulang!\n";</pre>
        goto menu;
```

