

LAPORAN PRAKTIKUM

STRUKTUR DATA



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PROGRAM STUDI S1 REKAYASA PERANGKAT
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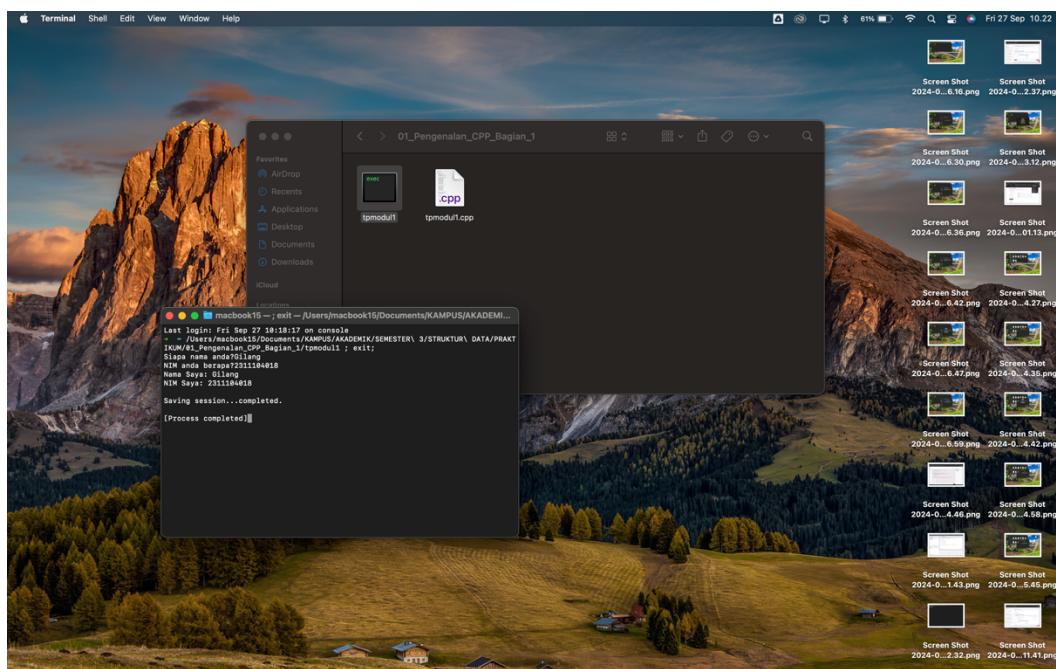
2024

1. Input/Output) Tuliskan kode berikut dan jalankan. a) Masukkan nama lengkap anda dan nim anda. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban. b) Masukkan nama pertama anda dan nim anda. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code :

```
cout << "SOAL NO 1" << endl;
string nama, nim;
cout << "Siapa nama anda? ";
cin >> nama;
cout << "Berapa nim anda? ";
cin >> nim;
cout << "Nama saya: " << nama << endl;
cout << "NIM saya: " << nim << endl;
cout << "" << endl;
```

Hasil :



2. (Operasi aritmatika) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code:

```

cout << "SOAL NO 2" << endl;
int bil1_S2 = 3, bil2_S2 = 4, hasil1_S2;
float bil3_S2 = 3.0, bil4_S2 = 4.0, hasil2_S2;

hasil1_S2 = bil1_S2 + bil2_S2;
cout << hasil1_S2 << endl;

hasil1_S2 = bil1_S2 - bil2_S2;
cout << hasil1_S2 << endl;

hasil1_S2 = bil1_S2 * bil2_S2;
cout << hasil1_S2 << endl; int main::bil1_S2

hasil1_S2 = bil1_S2 / bil2_S2; // Pembagian
cout << hasil1_S2 << endl;

hasil1_S2 = bil2_S2 / bil1_S2; // Pembagian
cout << hasil1_S2 << endl;

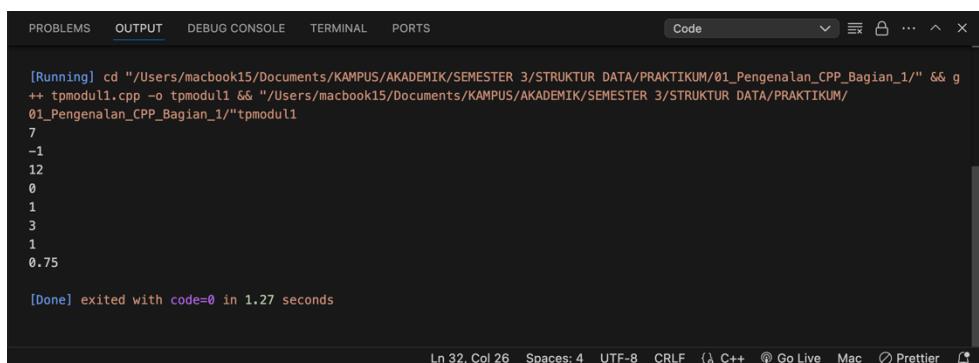
hasil1_S2 = bil1_S2 % bil2_S2; // modulus
cout << hasil1_S2 << endl;

hasil1_S2 = bil2_S2 % bil1_S2; // modulus
cout << hasil1_S2 << endl;

hasil2_S2 = bil3_S2 / bil4_S2;
cout << hasil2_S2 << endl;
cout << "" << endl;

```

Hasil :



```

[Running] cd "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/01_Pengenalan_CPP_Bagian_1/" && g
++ tpmodul1.cpp -o tpmodul1 && "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/
01_Pengenalan_CPP_Bagian_1"/tpmodul1
7
-1
12
0
1
3
1
0.75

[Done] exited with code=0 in 1.27 seconds

```

Ln 32, Col 26 Spaces: 4 UTF-8 CRLF { C++ Go Live Mac Prettier

3. (Operasi perbandingan) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code:

```

// SOAL NO 3

cout << "SOAL NO 3" << endl;
int bil1_S3 = 2, bil2_S3 = 3, hasil_S3;

hasil_S3 = bil1_S3 > bil2_S3;
cout << hasil_S3 << endl;

hasil_S3 = bil1_S3 >= bil2_S3;
cout << hasil_S3 << endl;

hasil_S3 = bil1_S3 < bil2_S3;
cout << hasil_S3 << endl;

hasil_S3 = bil1_S3 <= bil2_S3;
cout << hasil_S3 << endl;

hasil_S3 = bil1_S3 == bil2_S3;
cout << hasil_S3 << endl;

hasil_S3 = bil1_S3 != bil2_S3;
cout << hasil_S3 << endl;
cout << "" << endl;

```

Hasil :

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code
[Running] cd "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/01_Pengenalan_CPP_Bagian_1/" && g++ tp_moduli.cpp -o tp_moduli && "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/01_Pengenalan_CPP_Bagian_1/"tp_moduli
0
0
1
1
0
1

[Done] exited with code=0 in 1.202 seconds

```

Ln 41, Col 25 Spaces: 4 UTF-8 CRLF ⚙ C++ ⚙ Go Live ⚙ Mac ⚙ Prettier ⚙

4. (Operasi logika) Tuliskan kode berikut dan jalankan. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code:

```
// SOAL NO 4

cout << "SOAL NO 4" << endl;
int bil1_S4 = 2, bil2_S4 = 3, hasil_S4;
hasil_S4 = bil1_S4 <= bil2_S4 && bil1_S4 < bil2_S4;
cout << hasil_S4 << endl;
hasil_S4 = bil1_S4 >= bil2_S4 || bil1_S4 < bil2_S4;
cout << hasil_S4 << endl;
hasil_S4 = !(bil1_S4 >= bil2_S4) || bil1_S4 < bil2_S4;
cout << hasil_S4 << endl;
cout << "" << endl;
```

Hasil :

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
1
[Done] exited with code=0 in 1.202 seconds
[Running] cd "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/01_Pengenalan_CPP_Bagian_1/" && g++ tp_modul1.cpp -o tp_modul1 && "/Users/macbook15/Documents/KAMPUS/AKADEMIK/SEMESTER 3/STRUKTUR DATA/PRAKTIKUM/01_Pengenalan_CPP_Bagian_1/"tp_modul1
1
1
1
[Done] exited with code=0 in 1.192 seconds
Ln 60, Col 18  Spaces: 4  UTF-8  CRLF  (ɔ) C++  ⓘ Go Live  Mac  ⓘ Prettier  ⌂
```

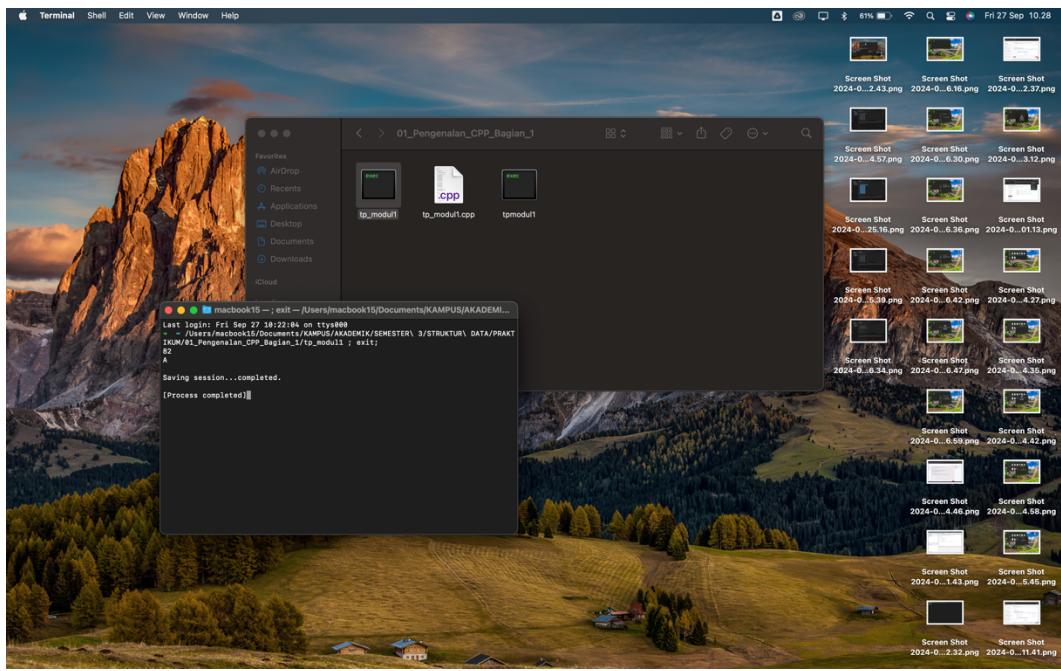
5. (Percabangan if-else) Tuliskan kode berikut dan jalankan. Masukkan input 80, 81, dan 79. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code:

```
// SOAL NO 5

cout << "SOAL NO 5" << endl;
int nilai_s5;
cin >> nilai_s5;
if (nilai_s5 > 80) {
    cout << "A" << endl;
} else {
    cout << "Bukan A" << endl;
}
cout << "" << endl;
```

Hasil :



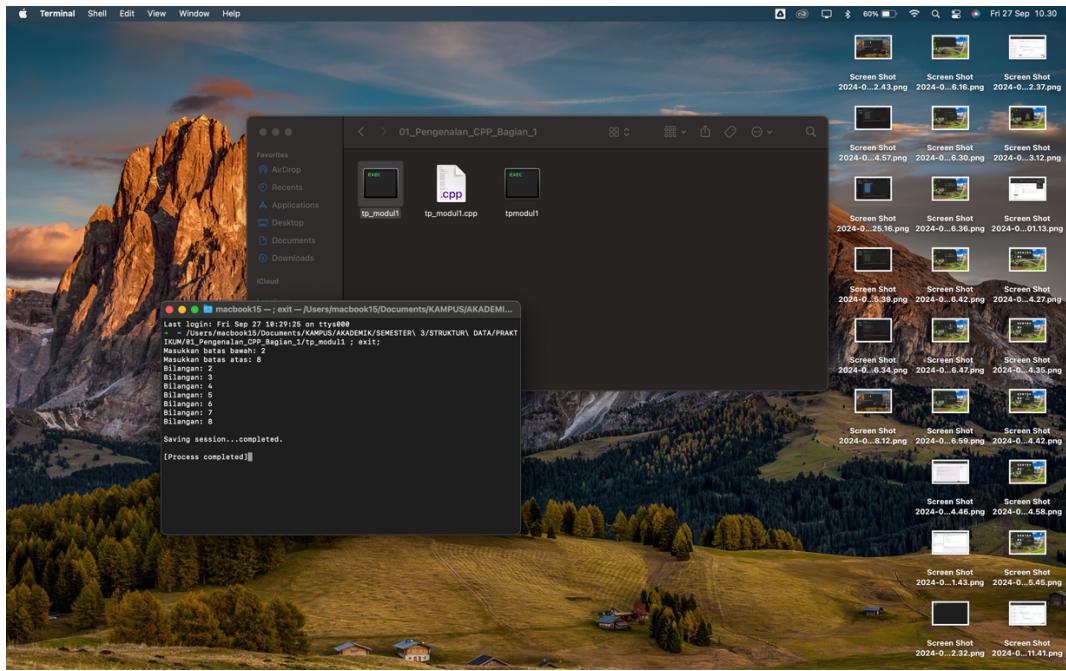
6. (Perulangan for-to-do) Tuliskan kode berikut dan jalankan. Masukkan 1 dan 10. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code :

```
// SOAL NO 6

cout << "SOAL NO 6" << endl;
int a_s6, b_s6, bilangan_s6;
cout << "Masukan batas bawah: ";
cin >> a_s6;
cout << "Masukan batas atas: ";
cin >> b_s6;
for (bilangan_s6 = a_s6; bilangan_s6 <= b_s6; bilangan_s6++) {
    cout << "Bilangan " << bilangan_s6 << endl;
}
cout << "" << endl;
```

Hasil :



7. (Perulangan while-do) Tuliskan kode berikut dan jalankan. Masukkan pada input bilangan 10. Screenshot kode dan hasilnya, lalu tempelkan pada jawaban.

Source Code :

```
// SOAL NO 7

cout << "SOAL NO 7" << endl;
int bilangan_s7, asli_s7, jumlah_s7;
cout << "Masukkan bilangan asli: ";
cin >> asli_s7;

bilangan_s7 = 1;
jumlah_s7 = 0;
while (bilangan_s7 <= asli_s7) {
    if (bilangan_s7 % 2 == 0) {
        jumlah_s7 += bilangan_s7;
    }
    bilangan_s7++;
}
cout << "Jumlah bilangan genap: " << jumlah_s7 << endl;
cout << "" << endl;
```

Hasil :

