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Matkul : Pemrograman Terstruktur

## 1. Konversi Fahrenheit ke Celcius

```
Tugas - 2 > C++ fahrenheit_ke_celcius.cpp > main()
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5
6     float fahrenheit;
7     float celcius;
8
9     cout << "Fahrenheit : ";
10    cin >> fahrenheit;
11    celcius = 5.0/9.0 * (fahrenheit - 32);
12    cout << "Celcius : " << celcius << endl;
13 }
```

```
Windows PowerShell
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PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2> & 'c:\Users\abdwa\vscode\extensions\ms-vscode.cpptools-1.17.5-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-0dmn1enc.bou' '--stdout=t-3bmron5o.uh3' '--stderr=Microsoft-MIEngine-Error-j0ejsdg5.dml' 'Microsoft-MIEngine-Pid-xiqmo3rh.0i4' '--dbgExe=C:\Program Files\mingw64\bin\gdb.exe' '--interpreter=mi'
Fahrenheit : 120
Celcius : 48.8889
PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2>
```

## 2. Menghitung luas dan keliling lingkaran

```
Tugas - 2 > C++ luas_dan_keliling.cpp > ...
1 #include <iostream>
2 #define PHI 3.14
3 using namespace std;
4
5 int main() {
6     int r;
7     float luas;
8     float keliling;
9
10    cout << "Jari-jari lingkaran : ";
11    cin >> r;
12    luas = PHI * r * r;
13    keliling = 2 * PHI * r;
14
15    cout << "Luas lingkaran : " << luas << endl;
16    cout << "Keliling lingkaran : " << keliling << endl;
17 }
```

```
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PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2> & 'c:\Users\abdwa\vscode\extensions\ms-vscode.cpptools-1.17.5-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-ehjgbhdf.ncf' '--stdout=Microsoft-MIEngine-Out-rase1hok.mnj' '--stderr=Microsoft-MIEngine-Error-dkkpodzs.vot' '--pid=Microsoft-MIEngine-Pid-ahcyrtwk.std' '--dbgExe=C:\Program Files\mingw64\bin\gdb.exe' '--interpreter=mi'
Jari-jari lingkaran : 12
Luas lingkaran : 452.16
Keliling lingkaran : 75.36
PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2>
```

## 3. Tambah, kurang, kali dan bagi

```
Tugas - 2 > C++ operator_aritmatika.cpp > ...
1 #include <iostream>
2 using namespace std;
3
4 int main() {
5     float a;
6     float b;
7     float hasilJumlah;
8     float hasilKurang;
9     float hasilKali;
10    float hasilBagi;
11
12    cout << "Masukkan variabel a : ";
13    cin >> a;
14    cout << "Masukkan variabel b : ";
15    cin >> b;
16
17    hasilJumlah = a + b;
18    hasilKurang = a - b;
19    hasilKali = a * b;
20    hasilBagi = a / b;
21
22    cout << "Hasil Jumlah : " << hasilJumlah << endl;
23    cout << "Hasil Kurang : " << hasilKurang << endl;
24    cout << "Hasil Kali : " << hasilKali << endl;
25    cout << "Hasil Bagi : " << hasilBagi << endl;
26 }
```

```
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PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2> & 'c:\Users\abdwa\vscode\extensions\ms-vscode.cpptools-1.17.5-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-jn5ujpjc.yv2' '--stdout=Microsoft-MIEngine-Out-a2dko4si.why' '--stderr=Microsoft-MIEngine-Error-y1zzjyvg.vhe' '--pid=Microsoft-MIEngine-Pid-hg4ph0ej.3dl' '--dbgExe=C:\Program Files\mingw64\bin\gdb.exe' '--interpreter=mi'
Masukkan variabel a : 8
Masukkan variabel b : 4
Hasil Jumlah : 12
Hasil Kurang : 4
Hasil Kali : 32
Hasil Bagi : 2
PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2>
```

#### 4. Aplikasi menghitung pembelian pulpen

```
Tugas - 2 > C++ menghitung_pembelian_pulpen.cpp > main()
1  #include <iostream>
2  using namespace std;
3
4  #define hargaPerpulpen 10000
5  #define hargaPerlusin 100000
6  #define lusin 12
7
8  int main() {
9      int jumlahLusin;
10     int jumlahBeli;
11     int jumlahSatuanPulpen;
12     int totalBayar;
13
14     cout << "Jumlah beli : ";
15     cin >> jumlahBeli;
16     jumlahLusin = jumlahBeli / lusin;
17     jumlahSatuanPulpen = jumlahBeli % lusin;
18     totalBayar = (hargaPerpulpen * jumlahSatuanPulpen) + (hargaPerlusin * jumlahLusin);
19
20     cout << "Total bayar : " << totalBayar << endl;
21 }
```

```
PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2> & 'c:\Users\A...
ode\extensions\ms-vscode.cpptools-1.17.5-win32-x64\debugAdapters\bin\
buglauncher.exe' '--stdin=Microsoft-MIEngine-In-r3825ut3.425' '--std
oft-MIEngine-Out-onzlpdm.py1' '--stderr=Microsoft-MIEngine-Error-m3
' '--pid=Microsoft-MIEngine-Pid-jmqyt5t.oid' '--dbgExe=C:\Program Fi
64\bin\vgdb.exe' '--interpreter=mi'
Jumlah beli : 80
Total bayar : 680000
PS C:\UJUN\Kuliah\Semester 3\P. Terstruktur\Tugas - 2> |
```