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**Tugas pemograman modifikasi p10 dengan membagi proteksi level data menjadi public dan private.**

```
#include <iostream>
```

```
#include <string>
```

```
class Baju {
```

```
private:
```

```
    std::string merk;
```

```
    std::string bahan;
```

```
    std::string warna;
```

```
    int harga;
```

```
    std::string size; //
```

```
public:
```

```
    Baju(std::string m, std::string b, std::string w, int h, std::string s) {
```

```
        merk = m;
```

```
        bahan = b;
```

```
        warna = w;
```

```
        harga = h;
```

```
        size = s;
```

```
    }
```

```
    void setMerk(std::string m) {
```

```
        merk = m;
```

```
}
```

```
std::string getMerk() {
```

```
    return merk;
```

```
}
```

```
void setBahan(std::string b) {
```

```
    bahan = b;
```

```
}
```

```
std::string getBahan() {
```

```
    return bahan;
```

```
}
```

```
void setWarna(std::string w) {
```

```
    warna = w;
```

```
}
```

```
std::string getWarna() {
```

```
    return warna;
```

```
}
```

```
void setHarga(int h) {
```

```
    harga = h;
```

```
}
```

```
int getHarga() {
```

```
    return harga;
```

```

}

void setSize(std::string s) {
    size = s;
}

std::string getSize() {
    return size;
}

void tampilkanInfo() {
    std::cout << "Merk: " << merk << ", Bahan: " << bahan << ", Warna: " << warna << ",
    Harga: " << harga << ", Size: " << size << std::endl;
}
};

int main() {
    Baju bj("Erigo", "Katun", "Hitam", 300000, "M"); //

    std::cout << "Merk: " << bj.getMerk() << std::endl;
    std::cout << "Bahan: " << bj.getBahan() << std::endl;
    std::cout << "Warna: " << bj.getWarna() << std::endl;
    std::cout << "Harga: " << bj.getHarga() << std::endl;
    std::cout << "Size: " << bj.getSize() << std::endl;

    return 0;
}

```

## Hasil Running :

The screenshot shows a web browser window with several tabs. The active tab is 'w3schools.com/cpp/trycpp.asp?filename=demo\_compiler'. The browser address bar shows the URL. Below the browser, there is a banner for 'w3schools' with the text 'BUILD YOUR CAREER. GET FULL ACCESS. SAVE 770\$' and a 'Start today' button. The main content area displays a C++ code editor with the following code:

```
void setHarga(int n) {
    harga = n;
}

int getHarga() {
    return harga;
}

void setSize(std::string s) {
    size = s;
}

std::string getSize() {
    return size;
}

void tampilkanInfo() {
    std::cout << "Merk: " << merk << ", Bahan: " << bahan << ", Warna: " << warna
<< ", Harga: " << harga << ", Size: " << size << std::endl;
};

int main() {
    Baju bj("Erigo", "Katun", "Hitam", 300000, "M"); //
    std::cout << "Merk: " << bj.getMerk() << std::endl;
    std::cout << "Bahan: " << bj.getBahan() << std::endl;
    std::cout << "Warna: " << bj.getWarna() << std::endl;
    std::cout << "Harga: " << bj.getHarga() << std::endl;
    std::cout << "Size: " << bj.getSize() << std::endl;

    return 0;
}
```

The output of the code is displayed on the right side of the editor:

```
Merk: Erigo
Bahan: Katun
Warna: Hitam
Harga: 300000
Size: M
```

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date and time: 10:27 PM, 5/29/2024.

```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
class Tanaman {
```

```
private:
```

```
    string bunga;
```

```
    string warna;
```

```
    int tinggi;
```

```
    int umur;
```

```
public:
```

```
    // Constructor
```

```
    Tanaman(string bunga, string warna, int tinggi, int umur) {
```

```
        this->bunga = bunga;
```

```
        this->warna = warna;
```

```
        this->tinggi = tinggi;
```

```
        this->umur = umur;
```

```
    }
```

```
    // Getter untuk bunga
```

```
    string getBunga() const {
```

```
        return bunga;
```

```
    }
```

```
    // Setter untuk bunga
```

```
    void setBunga(const string& newBunga) {
```

```
        bunga = newBunga;
    }

    // Getter untuk warna
    string getWarna() const {
        return warna;
    }

    // Setter untuk warna
    void setWarna(const string& newWarna) {
        warna = newWarna;
    }

    // Getter untuk tinggi
    int getTinggi() const {
        return tinggi;
    }

    // Setter untuk tinggi
    void setTinggi(int newTinggi) {
        tinggi = newTinggi;
    }

    // Getter untuk umur
    int getUmur() const {
        return umur;
    }
}
```

```
// Setter untuk umur
void setUmur(int newUmur) {
    umur = newUmur;
}
};

int main() {
    // Membuat objek Tanaman
    Tanaman myTanaman("Mawar", "Merah, Putih, Hitam, Pink", 0.5, 9);

    // Menampilkan informasi Tanaman
    cout << "Bunga: " << myTanaman.getBunga() << endl;
    cout << "Warna: " << myTanaman.getWarna() << endl;
    cout << "Tinggi: " << myTanaman.getTinggi() << endl;
    cout << "Umur: " << myTanaman.getUmur() << " tahun" << endl;

    // Mengubah umur Tanaman
    myTanaman.setUmur(10);

    // Menampilkan informasi Tanaman setelah perubahan umur
    cout << "\nSetelah perubahan umur:" << endl;
    cout << "Umur: " << myTanaman.getUmur() << " tahun" << endl;

    return 0;
}
```

# Hasil Running:

The screenshot shows a web browser window with several tabs. The active tab is 'w3schools.com/cpp/trycpp.asp?filename=demo\_compiler'. The browser address bar shows the URL. Below the browser, there is a banner for 'w3schools' with the text 'BUILD YOUR CAREER. GET FULL ACCESS. SAVE 770\$' and a 'Start today' button. The main content area displays a C++ code editor with a 'Run' button. The code defines a 'Tanaman' class with methods for getting and setting attributes. The main function creates a 'Mawar' object and prints its details before and after changing its age from 9 to 10. The output window shows the following text:

```
Bunga: Mawar
Warna: Merah, Putih, Hitam, Pink
Tinggi: 0
Umur: 9 tahun

Setelah perubahan umur:
Umur: 10 tahun
```

The Windows taskbar at the bottom shows the search bar, taskbar icons, and system tray with the date and time: 10:53 PM, 5/29/2024.