

Kelompok

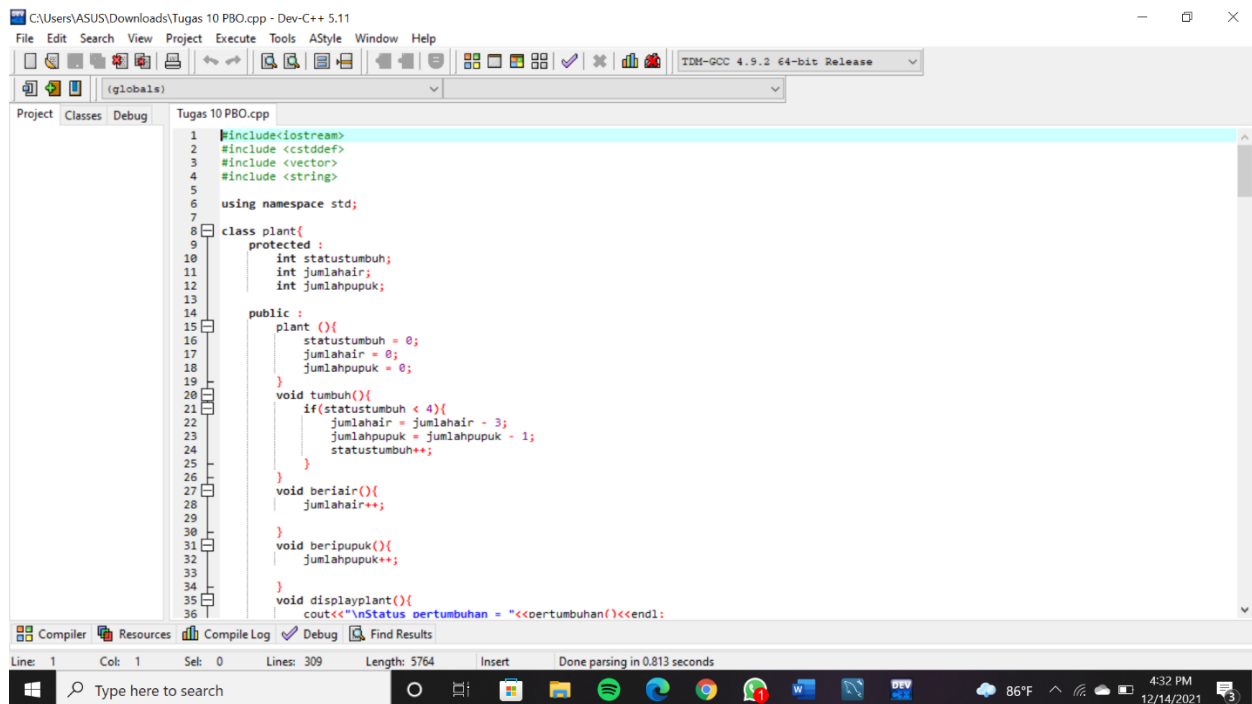
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The screenshot shows the Dev-C++ IDE with the file 'Tugas 10 PBO.cpp' open. The code is a C++ program that simulates plant growth over time. It includes headers for `<iostream>`, `<cstdlib>`, `<vector>`, and `<string>`, and uses the `std` namespace. A `plant` class is defined with three protected attributes: `statustumbuh`, `jumlahair`, and `jumlahpupuk`. The class has a public constructor that initializes these attributes to 0. It also has three public methods: `tumbuh()` which increments `statustumbuh` and decreases `jumlahair` and `jumlahpupuk` based on the current status; `beriair()` which increments `jumlahair`; and `beripupuk()` which increments `jumlahpupuk`. A `displayplant()` method is also present, which prints the current status and requirements. The main function is not visible in the screenshot.

```
1 #include<iostream>
2 #include <cstdlib>
3 #include <vector>
4 #include <string>
5
6 using namespace std;
7
8 class plant{
9     protected :
10         int statustumbuh;
11         int jumlahair;
12         int jumlahpupuk;
13
14     public :
15         plant(){
16             statustumbuh = 0;
17             jumlahair = 0;
18             jumlahpupuk = 0;
19         }
20         void tumbuh(){
21             if(statustumbuh < 4){
22                 jumlahair = jumlahair - 3;
23                 jumlahpupuk = jumlahpupuk - 1;
24                 statustumbuh++;
25             }
26         }
27         void beriair(){
28             jumlahair++;
29         }
30         void beripupuk(){
31             jumlahpupuk++;
32         }
33         void displayplant(){
34             cout<<"\nStatus pertumbuhan = "<<statustumbuh<<endl;
35         }
36 }
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
34
35
36 void displayplant(){
37     cout<<"\nStatus pertumbuhan = "<<pertumbuhan()<<endl;
38     cout<<"Jumlah air = "<<jumlahair<<endl;
39     cout<<"Jumlah pupuk = "<<jumlahpupuk<<endl;
40 }
41 string pertumbuhan(){
42     switch (statustumbuh){
43     case 0:
44         return "Benih";
45         break;
46     case 1:
47         return "Tunas";
48         break;
49     case 2:
50         return "Tanaman Kecil";
51         break;
52     case 3:
53         return "Tanaman Dewasa";
54         break;
55     }
56     return "Berbunga";
57 }
58 int getstatustumbuh(){
59     return statustumbuh;
60 }
61
62 class Anggrek : public plant{
63 private :
64     string jenis;
65
66 public :
67     Anggrek (){}
68     plant();
69     jenis = "Anggrek";
70 }
71
72 void cekkondisitumbuh(){
73     if(jumlahair >= 3 && jumlahpupuk >= 2){
74         cout<<"Anggrek tumbuh "<<endl;
75         tumbuh();
76     }
77     else{
78         cout<<"jumlah air Anggrek = "<<jumlahair<<endl;
79         cout<<"jumlah pupuk Anggrek = "<<jumlahpupuk<<endl;
80     }
81 }
82 void tumbuh(){
83     if(statustumbuh < 4){
84         jumlahair = jumlahair - 3;
85         jumlahpupuk = jumlahpupuk - 2;
86         statustumbuh++;
87     }
88 }
89 string getjenis(){
90     return jenis;
91 }
92
93
94 class Mawar : public plant{
95 private :
96     string jenis;
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
61
62 class Anggrek : public plant{
63 private :
64     string jenis;
65
66 public :
67     Anggrek (){}
68     plant();
69     jenis = "Anggrek";
70 }
71
72 void cekkondisitumbuh(){
73     if(jumlahair >= 3 && jumlahpupuk >= 2){
74         cout<<"Anggrek tumbuh "<<endl;
75         tumbuh();
76     }
77     else{
78         cout<<"jumlah air Anggrek = "<<jumlahair<<endl;
79         cout<<"jumlah pupuk Anggrek = "<<jumlahpupuk<<endl;
80     }
81 }
82 void tumbuh(){
83     if(statustumbuh < 4){
84         jumlahair = jumlahair - 3;
85         jumlahpupuk = jumlahpupuk - 2;
86         statustumbuh++;
87     }
88 }
89 string getjenis(){
90     return jenis;
91 }
92
93
94 class Mawar : public plant{
95 private :
96     string jenis;
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
94 class Mawar : public plant{
95 private :
96     string jenis;
97
98 public :
99     Mawar(){
100         plant();
101         jenis = "Mawar";
102     }
103     void cekondisitumbuh(){
104         if(jumlahair >= 2 && jumlahpupuk >= 2){
105             cout<<"Mawar tumbuh "<<endl;
106             tumbuh();
107         }
108         else{
109             cout<<"jumlah air Mawar  = "<<jumlahair<<endl;
110             cout<<"jumlah pupuk Mawar = "<<jumlahpupuk<<endl;
111         }
112     }
113     void tumbuh(){
114         if(statustumbuh < 4){
115             jumlahair = jumlahair - 2;
116             jumlahpupuk = jumlahpupuk - 2;
117             statustumbuh++;
118         }
119     }
120     string getjenis(){
121         return jenis;
122     }
123 };
124
125 class Melati : public plant(
126 private :
127     string jenis;
128
129 public :
130     Melati(){
131         plant();
132         jenis = "Melati";
133     }
134     void cekondisitumbuh(){
135         if(jumlahair >= 1 && jumlahpupuk >= 2){
136             cout<<"Melati tumbuh "<<endl;
137             tumbuh();
138         }
139         else{
140             cout<<"jumlah air Melati  = "<<jumlahair<<endl;
141             cout<<"jumlah pupuk Melati = "<<jumlahpupuk<<endl;
142         }
143     }
144     void tumbuh(){
145         if(statustumbuh < 4){
146             jumlahair = jumlahair - 1;
147             jumlahpupuk = jumlahpupuk - 2;
148             statustumbuh++;
149         }
150     }
151     string getjenis(){
152         return jenis;
153     }
154 };
155
156 class taman : public Anggrek, public Mawar, public Melati{
157 protected :
158     int ukuran;
159
160 public :
161     taman(){
162         Anggrek();
163         Mawar();
164         Melati();
165     }
166     void tambah(){
167         ukuran++;
168     }
169     void tampilkan(){
170         cout<<"Ukuran taman : "<<ukuran<<endl;
171     }
172 };
173
174 int main(){
175     taman t;
176     t.tambah();
177     t.tampilkan();
178     return 0;
179 }
```

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```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
125 class Melati : public plant(
126 private :
127     string jenis;
128
129 public :
130     Melati(){
131         plant();
132         jenis = "Melati";
133     }
134     void cekondisitumbuh(){
135         if(jumlahair >= 1 && jumlahpupuk >= 2){
136             cout<<"Melati tumbuh "<<endl;
137             tumbuh();
138         }
139         else{
140             cout<<"jumlah air Melati  = "<<jumlahair<<endl;
141             cout<<"jumlah pupuk Melati = "<<jumlahpupuk<<endl;
142         }
143     }
144     void tumbuh(){
145         if(statustumbuh < 4){
146             jumlahair = jumlahair - 1;
147             jumlahpupuk = jumlahpupuk - 2;
148             statustumbuh++;
149         }
150     }
151     string getjenis(){
152         return jenis;
153     }
154 };
155
156 class taman : public Anggrek, public Mawar, public Melati{
157 protected :
158     int ukuran;
159
160 public :
161     taman(){
162         Anggrek();
163         Mawar();
164         Melati();
165     }
166     void tambah(){
167         ukuran++;
168     }
169     void tampilkan(){
170         cout<<"Ukuran taman : "<<ukuran<<endl;
171     }
172 };
173
174 int main(){
175     taman t;
176     t.tambah();
177     t.tampilkan();
178     return 0;
179 }
```

Line: 1 Col: 1 Sel: 0 Lines: 309 Length: 5764 Insert Done parsing in 0.813 seconds

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(globals)

Project Classes Debug Tugas 10 PBO.cpp

```
158 class taman : public Anggrek, public Mawar, public Melati{
159 protected :
160     int ukuran;
161     int tanaman;
162     int panen;
163     vector<plant> t;
164     vector<Anggrek> a;
165     vector<Mawar> m;
166     vector<Melati> e;
167
168 public :
169     taman () {
170         ukuran = 10;
171         tanaman = 0;
172         panen = 0;
173     }
174     bool addangrek(Anggrek l){
175         if (tanaman < ukuran ){
176             a.push_back(l);
177             t.push_back(l);
178             cout << "menambahkan Anggrek\n";
179             tanaman++;
180             return true;
181         }
182         else{
183             return false;
184         }
185     }
186     bool addmawar(Mawar l){
187         if (tanaman < ukuran ){
188             m.push_back(l);
189             t.push_back(l);
190             cout << "menambahkan Mawar\n";
191             tanaman++;
192             return true;
193         }
```

Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 309 Length: 5764 Insert Done parsing in 0.813 seconds

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C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Tugas 10 PBO.cpp

```
188         m.push_back(l);
189         t.push_back(l);
190         cout << "menambahkan Mawar\n";
191         tanaman++;
192         return true;
193     }
194     else{
195         return false;
196     }
197 }
198 bool addmelati(Melati l){
199     if (tanaman < ukuran ){
200         e.push_back(l);
201         t.push_back(l);
202         cout << "menambahkan Melati\n";
203         tanaman++;
204         return true;
205     }
206     else{
207         return false;
208     }
209 }
210 void airAnggrek(){
211     for (int i = 0; i < a.size(); i++){
212         a[i].beriAir();
213         a[i].cekkondisitumbuh();
214     }
215 }
216 void airMawar(){
217     for (int i = 0; i < m.size(); i++){
218         m[i].beriAir();
219         m[i].cekkondisitumbuh();
220     }
221 }
222
223 }
```

Compiler Resources Compile Log Debug Find Results

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```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
215
216 }
217 void airMawar(){
218     for (int i = 0; i < m.size(); i++){
219         m[i].berair();
220         m[i].cekkondisitumbuh();
221     }
222 }
223
224 void airMelati(){
225     for (int i = 0; i < e.size(); i++){
226         e[i].berair();
227         e[i].cekkondisitumbuh();
228     }
229 }
230
231 void pupukAnggrek(){
232     for (int i = 0; i < a.size(); i++){
233         a[i].beripupuk();
234         a[i].cekkondisitumbuh();
235     }
236 }
237
238 void pupukMawar(){
239     for (int i = 0; i < m.size(); i++){
240         m[i].beripupuk();
241         m[i].cekkondisitumbuh();
242     }
243 }
244 void pupukMelati(){
245     for (int i = 0; i < e.size(); i++){
246         e[i].beripupuk();
247         e[i].cekkondisitumbuh();
248     }
249 }
250 };
```

Compiler Resources Compile Log Debug Find Results

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```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Tugas 10 PBO.cpp
250
251 int main(){
252     taman t;
253     Anggrek a;
254     Mawar m;
255     Melati e;
256
257     int inp = 0;
258     do{
259         cout<<"\n";
260         cout<<"1. menambahkan plant"<<endl;
261         cout<<"2. beri Anggrek air"<<endl;
262         cout<<"3. beri Anggrek pupuk"<<endl;
263         cout<<"4. beri Mawar air"<<endl;
264         cout<<"5. beri Mawar pupuk"<<endl;
265         cout<<"6. beri Melati air"<<endl;
266         cout<<"7. beri Melati pupuk"<<endl;
267         cout<<"999. keluar"<<endl;
268
269         cout<<"Masukan pilihan = ";cin>>inp;
270         switch(inp){
271             case 1:
272                 int pil;
273                 cout<<"1. Anggrek"<<endl;
274                 cout<<"2. Mawar"<<endl;
275                 cout<<"3. Melati"<<endl;
276                 cout<<"Masukkan = ";cin>>pil;
277                 if(pil == 1){
278                     t.addanggrek(a);
279                 }
280                 else if(pil == 2){
281                     t.addmawar(m);
282                 }
283                 else if(pil == 3){
284                     t.addmelati(e);
285                 }
286             }
287         }
288     } while(inp != 999);
289 }
```

Compiler Resources Compile Log Debug Find Results

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C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

Project Classes Debug Tugas 10 PBO.cpp

```
275 cout<<"3. Melati"<<endl;
276 cout<<"Masukkan = ";cin>>pil;
277 if(pil == 1){
278     t.addanggrek(a);
279 }
280 else if(pil == 2){
281     t.addmawar(m);
282 }
283 else if(pil == 3){
284     t.addmelati(e);
285 }
286 break;
287 case 2:
288     t.airAnggrek();
289 break;
290 case 3:
291     t.pupukAnggrek();
292 break;
293 case 4:
294     t.airMawar();
295 break;
296 case 5:
297     t.pupukMawar();
298 break;
299 case 6:
300     t.airMelati();
301 break;
302 case 7:
303     t.pupukMelati();
304 break;
305 }
306 }while (inp!=999);
307 return 0;
308 }
309 }
```

Compiler Resources Compile Log Debug Find Results

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C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\ASUS\Downloads\Tugas 10 PBO.exe

```
1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 1
1. Anggrek
2. Mawar
3. Melati
Masukkan = 1
menambahkan Anggrek

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 1
1. Anggrek
2. Mawar
3. Melati
Masukkan = 2
menambahkan Mawar
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\ASUS\Downloads\Tugas 10 PBO.exe
1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 1
1. Anggrek
2. Mawar
3. Melati
Masukkan = 2
menambahkan Mawar

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 1
1. Anggrek
2. Mawar
3. Melati
Masukkan = 3
menambahkan Melati
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\ASUS\Downloads\Tugas 10 PBO.exe
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 2
jumlah air Anggrek = 3
jumlah pupuk Anggrek = 0

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 3
jumlah air Anggrek = 3
jumlah pupuk Anggrek = 1

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 3
Anggrek tumbuh
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\ASUS\Downloads\Tugas 10 PBO.exe
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 4
jumlah air Mawar = 2
jumlah pupuk Mawar = 0

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 5
jumlah air Mawar = 2
jumlah pupuk Mawar = 1

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 5
Mawar tumbuh
```

```
C:\Users\ASUS\Downloads\Tugas 10 PBO.cpp - [Executing] - Dev-C++ 5.11

File C:\Users\ASUS\Downloads\Tugas 10 PBO.exe
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 6
jumlah air Melati = 1
jumlah pupuk Melati = 0

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 7
jumlah air Melati = 1
jumlah pupuk Melati = 1

1. menambahkan plant
2. beri Anggrek air
3. beri Anggrek pupuk
4. beri Mawar air
5. beri Mawar pupuk
6. beri Melati air
7. beri Melati pupuk
999. keluar
Masukan pilihan = 7
Melati tumbuh
```



```
#include<iostream>
```

```
#include <cstdint>
```

```
#include <vector>
```

```
#include <string>
```

```
using namespace std;
```

```
class plant{
```

```
    protected :
```

```
        int statustumbuh;
```

```
        int jumlahhair;
```

```
        int jumlahpupuk;
```

```
    public :
```

```
        plant (){
```

```
            statustumbuh = 0;
```

```
            jumlahhair = 0;
```

```
            jumlahpupuk = 0;
```

```
        }
```

```
        void tumbuh(){
```

```
            if(statustumbuh < 4){
```

```
                jumlahhair = jumlahhair - 3;
```

```
                jumlahpupuk = jumlahpupuk - 1;
```

```

        statustumbuh++;

    }

}

void beriair(){

    jumlahair++;

}

void beripupuk(){

    jumlahpupuk++;

}

void displayplant(){

    cout<<"\nStatus pertumbuhan = "<<pertumbuhan()<<endl;

    cout<<"Jumlah air  = "<<jumlahair<<endl;

    cout<<"Jumlah pupuk = "<<jumlahpupuk<<endl;

}

string pertumbuhan(){

    switch (statustumbuh){

        case 0:

            return "Benih";

            break;

        case 1:

            return "Tunas";

```

```

        break;

    case 2:

        return "Tanaman Kecil";

        break;

    case 3:

        return "Tanaman Dewasa";

        break;

    }

    return "Berbunga";

}

int getstatustumbuh(){

    return statustumbuh;

}

};

```

```

class Anggrek : public plant{

    private :

        string jenis;

    public :

        Anggrek (){

            plant();

            jenis = "Anggrek";

```

```

    }

void cek kondisi tumbuh(){

    if(jumlahair >= 3 && jumlahpupuk >= 2){

        cout<<"Anggrek tumbuh "<<endl;

        tumbuh();

    }

    else{

        cout<<"jumlah air Anggrek  = "<<jumlahair<<endl;

        cout<<"jumlah pupuk Anggrek = "<<jumlahpupuk<<endl;

    }

}

void tumbuh(){

    if(statustumbuh < 4){

        jumlahair  = jumlahair - 3;

        jumlahpupuk = jumlahpupuk - 2;

        statustumbuh++;

    }

}

string getjenis(){

    return jenis;

}

};

```

```

class Mawar : public plant{

private :

    string jenis;


public :

    Mawar (){

        plant();

        jenis = "Mawar";

    }

    void cek kondisi tumbuh(){

        if(jumlahair >= 2 && jumlahpupuk >= 2){

            cout<<"Mawar tumbuh "<<endl;

            tumbuh();

        }

        else{

            cout<<"jumlah air Mawar  = "<<jumlahair<<endl;

            cout<<"jumlah pupuk Mawar = "<<jumlahpupuk<<endl;

        }

    }

    void tumbuh(){

        if(statustumbuh < 4){

            jumlahair  = jumlahair - 2;

```

```

        jumlahpupuk = jumlahpupuk - 2;

        statustumbuh++;
    }

}

string getjenis(){
    return jenis;
}

};

```

```

class Melati : public plant{
    private :
        string jenis;

    public :
        Melati (){
            plant();

            jenis = "Melati";
        }

    void cekkondisitumbuh(){
        if(jumlahair >= 1 && jumlahpupuk >= 2){
            cout<<"Melati tumbuh "<<endl;

            tumbuh();
        }
    }
};

```

```

        }

        else{

            cout<<"jumlah air Melati  = "<<jumlahair<<endl;

            cout<<"jumlah pupuk Melati = "<<jumlahpupuk<<endl;

        }

    }

    void tumbuh(){

        if(statustumbuh < 4){

            jumlahair  = jumlahair - 1;

            jumlahpupuk = jumlahpupuk - 2;

            statustumbuh++;

        }

    }

    string getjenis(){

        return jenis;

    }

};

```

```

class taman : public Anggrek, public Mawar, public Melati{

    protected :

        int ukuran;

        int tanaman;

```

```
int panen;  
  
vector<plant> t;  
  
vector<Anggrek> a;  
  
vector<Mawar> m;  
  
vector<Melati> e;
```

```
public :
```

```
taman (){  
  
    ukuran = 10;  
  
    tanaman = 0;  
  
    panen = 0;  
  
}
```

```
bool addanggrek(Anggrek l){  
  
    if (tanaman < ukuran ){  
  
        a.push_back(l);  
  
        t.push_back(l);  
  
        cout << "menambahkan Anggrek\n";  
  
        tanaman++;  
  
        return true;  
  
    }  
  
    else{  
  
        return false;  
  
    }  
  
}
```



```

}

bool addmawar(Mawar l){

    if (tanaman < ukuran ){

        m.push_back(l);

        t.push_back(l);

        cout << "menambahkan Mawar\n";

        tanaman++;

        return true;

    }

    else{

        return false;

    }

}

```

```

bool addmelati(Melati l){

    if (tanaman < ukuran ){

        e.push_back(l);

        t.push_back(l);

        cout << "menambahkan Melati\n";

        tanaman++;

        return true;

    }

    else{

        return false;

    }

}

```

```

        }
    }

    void airAnggrek(){
        for (int i = 0; i < a.size(); i++){
            a[i].beriair();

            a[i].cekkondisitumbuh();
        }

    }

    void airMawar(){
        for (int i = 0; i < m.size(); i++){
            m[i].beriair();

            m[i].cekkondisitumbuh();
        }

    }

    void airMelati(){
        for (int i = 0; i < e.size(); i++){
            e[i].beriair();

            e[i].cekkondisitumbuh();
        }

    }

```

```

void pupukAnggrek(){
    for (int i = 0; i < a.size(); i++){
        a[i].beripupuk();
        a[i].cekkondisitumbuh();
    }
}

void pupukMawar(){
    for (int i = 0; i < m.size(); i++){
        m[i].beripupuk();
        m[i].cekkondisitumbuh();
    }
}

void pupukMelati(){
    for (int i = 0; i < e.size(); i++){
        e[i].beripupuk();
        e[i].cekkondisitumbuh();
    }
}

};

```

```

int main(){
    taman t;

    Anggrek a;

```

Mawar m;

Melati e;

int inp = 0;

do{

 cout<<"\n";

 cout << "1. menambahkan plant"<<endl;

 cout << "2. beri Anggrek air"<<endl;

 cout << "3. beri Anggrek pupuk"<<endl;

 cout << "4. beri Mawar air"<<endl;

 cout << "5. beri Mawar pupuk"<<endl;

 cout << "6. beri Melati air"<<endl;

 cout << "7. beri Melati pupuk"<<endl;

 cout << "999. keluar"<<endl;

 cout<<"Masukan pilihan = ";cin>>inp;

 switch(inp){

 case 1:

 int pil;

 cout<<"1. Anggrek"<<endl;

 cout<<"2. Mawar"<<endl;

 cout<<"3. Melati"<<endl;

 cout<<"Masukkan = ";cin>>pil;

```
        if(pil == 1){  
            t.addanggrek(a);  
        }  
        else if(pil == 2){  
            t.addmawar(m);  
        }  
        else if(pil == 3){  
            t.addmelati(e);  
        }  
        break;  
case 2:  
    t.airAnggrek();  
    break;  
case 3:  
    t.pupukAnggrek();  
    break;  
case 4:  
    t.airMawar();  
    break;  
case 5:  
    t.pupukMawar();  
    break;  
case 6:
```

```
        t.airMelati();  
        break;  
        case 7:  
            t.pupukMelati();  
            break;  
    }  
} while (inp!=999);  
return 0;  
}
```