

TUGAS

Code :

```
tugas.cpp
1  #include <iostream>
2  using namespace std;
3  int main() {
4      int x = 0, password;
5      string username = "malika", log_in_username;
6
7      do {
8          system("cls");
9          cout<<" Masukkan Username : "; cin>>log_in_username;
10         cout<<" Masukkan Password : "; cin>>password;
11         if(log_in_username == username and (password >= 22650001 and password <= 22650187)) {
12             system("cls");
13             cout<<"Login Berhasil\n\n";
14             cout<<"Selamat Datang Mahasiswa\n";
15             cout<<"Dengan Nim : "<<password<<"\n";
16             if(password >= 22650001 and password <= 22650037) {
17                 cout<<"Dari Kelas : A\n";
18             } else if(password >= 22650038 and password <= 22650072) {
19                 cout<<"Dari Kelas : B\n";
20             } else if(password >= 22650073 and password <= 22650105) {
21                 cout<<"Dari Kelas : C\n";
22             } else if(password >= 22650106 and password <= 22650150) {
23                 cout<<"Dari Kelas : D\n";
24             } else if(password >= 22650151 and password <= 22650187) {
25                 cout<<"Dari Kelas : E\n";
26             }
27             cin.get(); cin.get();
28             while(true) {
29                 system("cls");
30                 int pilihan;
31                 cout<<"          Bentuk Bangun Ruang          \n";
32                 cout<<"===== \n";
33                 cout<<"1. Belah Ketupat\n";
34                 cout<<"2. Segitiga Pascal\n";
35                 cout<<"3. Segitiga Siku-Siku\n";
36                 cout<<"4. Keluar\n";
37                 cout<<"===== \n";
38                 cout<<"Masukkan Pilihan : "; cin>>pilihan;
39                 if(pilihan == 1) {
40                     system("cls");
41                     cout<<"Belah Ketupat\n";
42                     cout<<"===== \n";
43                     for(int i = 1; i <= 5; i++) {
44                         for(int j = i; j < 5; j++) {
45                             cout<<" ";
46                         }
47                         for(int k = 1; k <= i; k++) {
48                             cout<<"*";
49                         }
50                         for(int l = 1; l < i; l++) {
51                             cout<<"*";
52                         }
53                         cout<<endl;
54                     }
55                     for(int i = 1; i <= 4; i++) {
56                         for(int j = 1; j <= i; j++) {
57                             cout<<" ";
58                         }
59                         for(int k = i; k <= 4; k++) {
60                             cout<<"*";
61                         }
62                         for(int l = i; l < 4; l++) {
63                             cout<<"*";
64                         }
65                         cout<<endl;
66                     }
67                     cin.get(); cin.get();
```

```

68 }else if(pilihan == 2) {
69     system("cls");
70     cout<<"Segitiga Pascal\n";
71     cout<<"=====\n";
72     for(int i = 1; i <= 6; i++) {
73         for(int j = i; j <= 6; j++) {
74             cout<<" ";
75         }
76         for(int k = 1; k <= i; k++) {
77             cout<<"*";
78         }
79         for(int l = 1; l < i; l++) {
80             cout<<"*";
81         }
82         cout<<endl;
83     }
84     cin.get(); cin.get();
85 }else if(pilihan == 3) {
86     system("cls");
87     cout<<"Segitiga Siku-Siku\n";
88     cout<<"=====\n";
89     for(int i = 1; i <= 2; i++) {
90         for(int j = 1; j <= i; j++) {
91             cout<<"* ";
92         }
93         cout<<endl;
94     }
95     for(int i = 1; i <= 1; i++) {
96         for(int j = 1; j <= 2; j++) {
97             cout<<"* ";
98         }
99         cout<<endl;
100     }
101     for(int i = 1; i <= 1; i++) {
102         for(int j = 1; j <= 2; j++) {
103             cout<<"* ";
104         }
105         cout<<endl;
106     }
107     for(int i = 1; i <= 1; i++) {
108         for(int j = 1; j <= 5; j++) {
109             cout<<"* ";
110         }
111         cout<<endl;
112     }
113     cin.get(); cin.get();
114 }else if(pilihan == 4) {
115     system("cls");
116     x = 0;
117     break;
118 }else {
119     system("cls");
120     cout<<"PILIHAN SALAH";
121     cin.get(); cin.get();
122 }
123 }
124 }else if(log_in_username == username and !(password >= 22650001 and password <= 22650187)) {
125     system("cls");
126     cout<<"PASSWORD SALAH";
127     x++;
128     cin.get(); cin.get();
129 }if(log_in_username != username and (password >= 22650001 and password <= 22650187)) {
130     system("cls");
131     cout<<"USERNAME SALAH";
132     x++;
133     cin.get(); cin.get();
134 }else if(log_in_username != username and !(password >= 22650001 and password <= 22650187)) {
135     system("cls");
136     cout<<"USERNAME DAN PASSWORD SALAH";
137     x++;
138     cin.get(); cin.get();
139 }
140 } while(x < 3);
141
142 if(x == 3) {
143     system("cls");
144     cout<<"ANDA TELAH MEMASUKKAN USERNAME ATAU PASSWORD YANG SALAH SEBANYAK 3X";
145     cin.get(); cin.get();
146 }
147 return 0;
148 }
149

```

Output :

```
D:\Tugas Praktikum\Logika &  X + v
Masukkan Username : malika
Masukkan Password : 22650134
```

Jika username dan password yang dimasukkan benar, maka akan muncul :

```
D:\Tugas Praktikum\Logika &  X + v
Login Berhasil
Selamat Datang Mahasiswa
Dengan Nim : 22650134
Dari Kelas : D
```

```
D:\Tugas Praktikum\Logika &  X + v
          Bentuk Bangun Ruang
=====
1. Belah Ketupat
2. Segitiga Pascal
3. Segitiga Siku-Siku
4. Keluar
=====
Masukkan Pilihan : |
```

```
D:\Tugas Praktikum\Logika &  X + v
Belah Ketupat
=====
      *
     ***
    *****
   *********
  ***********
 *****
  *****
   *****
    *****
     *****
      *****
       *
```

```
D:\Tugas Praktikum\Logika &  X + v
Segitiga Pascal
=====
      *
     ***
    *****
   *********
  ***********
 *****
  *****
   *****
    *****
     *****
      *****
       *
```

```
D:\Tugas Praktikum\Logika & X + v
Segitiga Siku-Siku
=====
*
* *
*  *
*   *
*    *
*     *
```

Jika memasukkan username atau password yang salah, maka akan muncul :

```
D:\Tugas Praktikum\Logika & X + v
USERNAME SALAH|
```

```
D:\Tugas Praktikum\Logika & X + v
PASSWORD SALAH|
```

```
D:\Tugas Praktikum\Logika & X + v
USERNAME DAN PASSWORD SALAH|
```

Jika memasukkan username atau password yang salah sebanyak 3 kali, maka akan muncul :

```
D:\Tugas Praktikum\Logika & X + v
ANDA TELAH MEMASUKKAN USERNAME ATAU PASSWORD YANG SALAH SEBANYAK 3X|
```