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## Posttest

The image shows two windows. The top window is Raptor, displaying a flowchart for a program that calculates the distance between two points A and B. The flowchart starts with 'Start', followed by input steps for 'Masukkan titik A1' (GET x1), 'Masukkan titik A2' (GET x2), 'Masukkan titik B1' (GET y1), and 'Masukkan titik B2' (GET y2). It then calculates  $A = (x2 - x1)^2 + (y2 - y1)^2$  and  $B = (y2 - y1)^2 + (y2 - y1)^2$ , followed by  $Jarak = \sqrt{A+B}$ . The final output steps are 'PUT "A = " + A', 'PUT "B = " + B', and 'PUT "Jarak antara titik A ke titik B = " + Jarak', ending at 'End'.

The bottom window is Dev-C++, showing the C++ source code for the program. The code includes `<iostream>`, `<string>`, and `<math.h>`. It uses `using namespace std;` and defines `int main()`. The code prompts the user for coordinates of two points, calculates the distance using the formula  $\sqrt{(x2-x1)^2 + (y2-y1)^2}$ , and prints the results.

```
1 #include <iostream>
2 #include <string>
3 #include <math.h>
4
5 using namespace std;
6 int main()
7 {
8     string raptor_prompt_variable_zzyz;
9     float x1, x2, y1, y2, a, b, jarak;
10
11     raptor_prompt_variable_zzyz = "Masukkan titik A1";
12     cout << raptor_prompt_variable_zzyz << endl;
13     cin >> x1;
14     raptor_prompt_variable_zzyz = "Masukkan titik A2";
15     cout << raptor_prompt_variable_zzyz << endl;
16     cin >> x2;
17     raptor_prompt_variable_zzyz = "Masukkan titik B1";
18     cout << raptor_prompt_variable_zzyz << endl;
19     cin >> y1;
20     raptor_prompt_variable_zzyz = "Masukkan titik B2";
21     cout << raptor_prompt_variable_zzyz << endl;
22     cin >> y2;
23     a = (x2-x1)*(x2-x1);
24     b = (y2-y1)*(y2-y1);
25     jarak = sqrt(a+b);
26     cout << "A = " << a << endl;
27     cout << "B = " << b << endl;
28     cout << "Jarak antara titik A ke titik B = " << jarak << endl;
29     return 0;
30 }
```

Compilation Time: 0,48s

```
MasterConsole
Font Font Size Edit Help
A = 16
B = 16
jarak antara titik A ke titik B = 5.6569
----Run complete. 12 symbols evaluated.----
```

```
Select D:\kuliah\Semester 4\Alpro\Praktikum\Raptor\post.exe
masukkan titik A1
8
Masukkan titik A2
4
masukkan titik B1
7
Masukkan titik B2
3
A = 16
B = 16
jarak antara titik A ke titik B = 5.65685
-----
Process exited after 9.532 seconds with return value 0
Press any key to continue . . .
```