

The image displays two screenshots of the Visual Studio Code editor interface, showing the same C++ program at different stages of execution.

Top Screenshot:

- File Explorer:** Shows the project files: `soalfis.c`, `soal1.cpp`, `drawheart.py`, and `LV.py`.
- Code Editor:** Displays the source code for `soalfis.c`. The code defines constants `g71 = 9.8` and `phi71 = 3.14`. It includes headers `<stdio.h>` and `<math.h>`. The `main` function declares variables `tm71`, `sudut71`, `radian71`, `VoX71`, `VoY71`, `r71`, `V71`, `TMX71`, and `HMX71`. It prompts the user to input initial velocity (`V71`) and launch angle (`sudut71`). Calculations performed include converting degrees to radians, finding horizontal and vertical components of velocity, time to reach maximum height (`TMX71`), and maximum height (`HMX71`). Horizontal distance at peak (`r71`) is also calculated. The output shows "HASIL" followed by initial velocity, horizontal/vertical velocities, time to peak, and horizontal distance.
- Status Bar:** Indicates line 60, column 2, UTF-8 encoding, CRLF line endings, C++ language, Win32 architecture, and Prettier formatter.

Bottom Screenshot:

- Code Editor:** Continues the program logic from the previous state. It prints the horizontal velocity (`VoX71`), time to peak (`TMX71`), maximum height (`HMX71`), and horizontal distance (`r71`). It then enters a loop to calculate velocity at various times (`t`). For each time step, it checks if `t < TMX71`. If true, it calculates horizontal velocity (`Vx`) and vertical velocity (`Vy`). If false, it calculates the final horizontal velocity after the object has passed its peak. The output shows the horizontal velocity at each time step.
- Status Bar:** Indicates line 44, column 72, UTF-8 encoding, CRLF line endings, C++ language, Win32 architecture, and Prettier formatter.

Hasil Run:

```
File Edit Selection View Go Run ... Search  
TERMINAL  
  
PS C:\Users\Rahel> cd E:\FISIKA  
PS E:\FISIKA> gcc soalfis.c -o 1  
PS E:\FISIKA> .\1  
>>>>>>>>>>>>>>>>>>>>>><<<<<<<<<<<<<<<<<<  
  
Masukkan besar sudut Elevasi ( $\theta$ ) : 45  
Masukkan Kecepatan awal (m/s) : 120  
  
=====> HASIL <=====  
Kecepatan awal Horizontal : 84.886589 m/s  
Kecepatan awal Vertikal : 84.819023 m/s  
Waktu ke puncak MAX : 8.655003 s  
Ketinggian MAX : 367.054413 m  
Jarak Tempuh : 734.693665 m  
  
Kecepatan horizontal (Vx) dari awal bergerak hingga jatuh (pada t awal, tm , t akhir)  
Kecepatan Horizontal pada t : 0.000000 , s : 84.886589  
Kecepatan Horizontal pada t : 8.655003 , s : 84.886589  
Kecepatan Horizontal pada t : 8.655003 , s : 84.886589  
  
Kecepatan vertikal (Vy) dari awal bergerak hingga jatuh (pada t awal, tm , t akhir)  
Kecepatan Vertikal pada t : 0.000000 , s : 84.819023  
Kecepatan Vertikal pada t : 8.655003 , s : 0.000000  
Kecepatan Vertikal pada t : 8.655003 , s : -84.819025  
PS E:\FISIKA>
```