

# Assignment 2:Constructor Overloading

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Code:

```
class Box {
    double width, height, depth;

    Box() {
        width = height = depth = 1;
    }

    Box(double w, double h, double d) {
        width = w;
        height = h;
        depth = d;
    }

    Box(double len) {
        width = height = depth = len;
    }

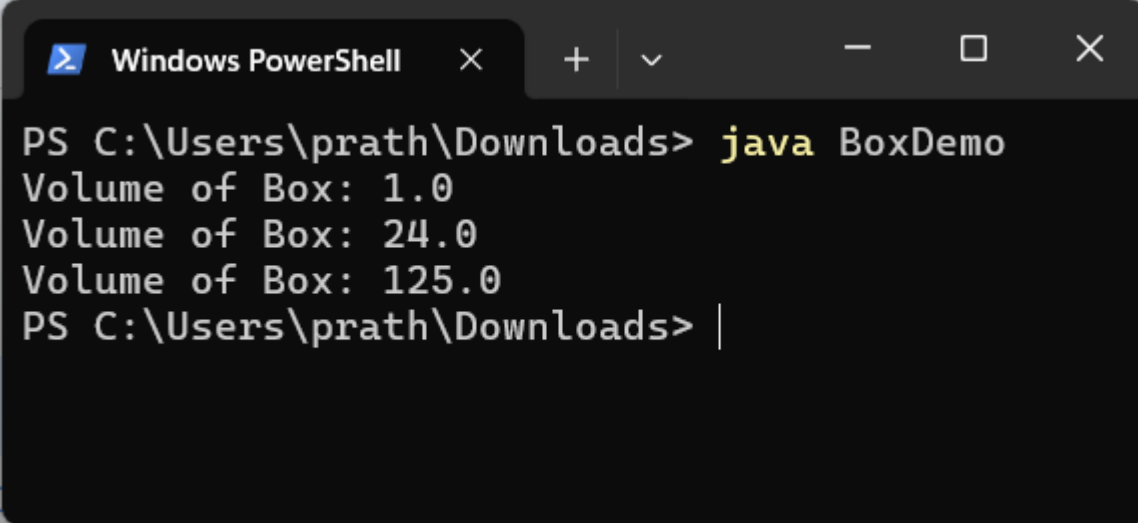
    void printVolume() {
        double vol = width * height * depth;
        System.out.println("Volume of Box: " + vol);
    }
}

class BoxDemo {
    public static void main(String args[]) {
        Box b1 = new Box();

        Box b2 = new Box(2, 3, 4);

        Box b3 = new Box(5);
        b1.printVolume();
        b2.printVolume();
        b3.printVolume();
    }
}
```

Output:

A screenshot of a Windows PowerShell terminal window. The title bar at the top reads "Windows PowerShell" with standard window controls (close, maximize, minimize). The terminal content shows a command prompt at "PS C:\Users\prath\Downloads>" followed by the command "java BoxDemo". The program outputs three lines: "Volume of Box: 1.0", "Volume of Box: 24.0", and "Volume of Box: 125.0". The prompt returns to "PS C:\Users\prath\Downloads>" with a cursor at the end.

```
PS C:\Users\prath\Downloads> java BoxDemo
Volume of Box: 1.0
Volume of Box: 24.0
Volume of Box: 125.0
PS C:\Users\prath\Downloads> |
```