

Assignment 1:Methods : a) use with or without return types. b) passing parameters

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a) use with or without return types:

Code:

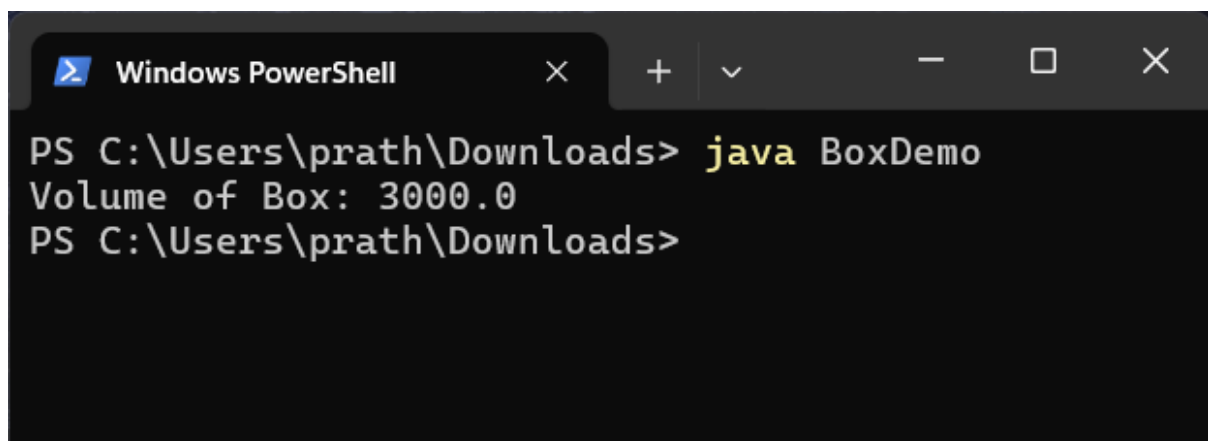
```
class Box {
    double width;
    double height;
    double depth;

    double volume() {
        return width * height * depth;
    }
}

class BoxDemo {
    public static void main(String args[]) {
        Box b1 = new Box();
        b1.width = 10;
        b1.height = 20;
        b1.depth = 15;

        double vol = b1.volume();
        System.out.println("Volume of Box: " + vol);
    }
}
```

Output:

A screenshot of a Windows PowerShell terminal window. The title bar shows 'Windows PowerShell' with standard window controls. The command prompt shows the directory 'C:\Users\prath\Downloads'. The user has entered the command 'java BoxDemo'. The output of the command is 'Volume of Box: 3000.0'. The prompt is now ready for the next command.

```
PS C:\Users\prath\Downloads> java BoxDemo
Volume of Box: 3000.0
PS C:\Users\prath\Downloads>
```

b) Passing parameters:

Code:

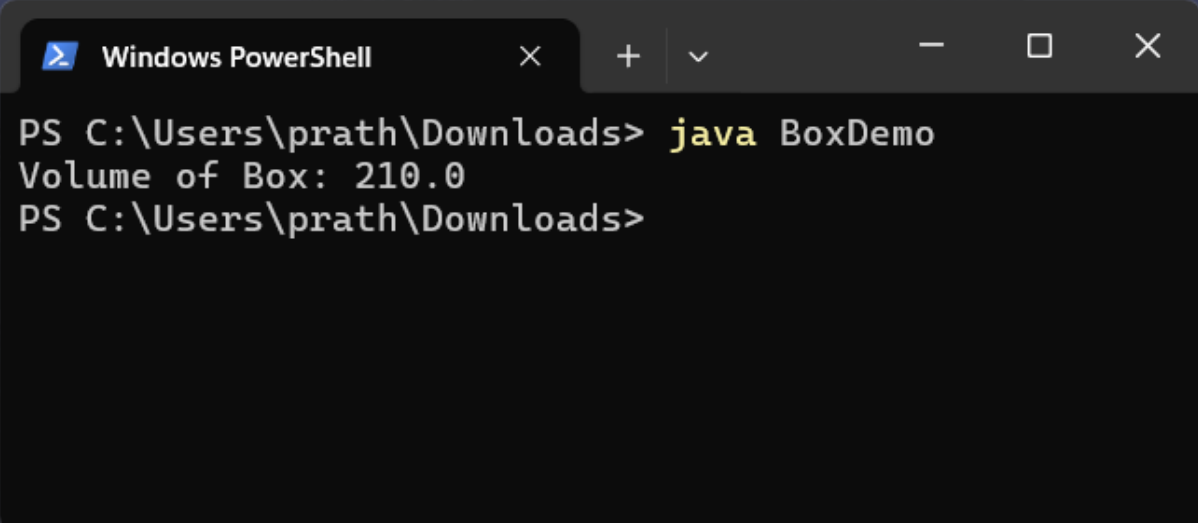
```
class Box {
    double width;
    double height;
    double depth;

    // method without return type (just prints result)
    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();
        b1.width = 5;
        b1.height = 6;
        b1.depth = 7;

        b1.printVolume();    // method only prints, no return
    }
}
```

Output:

A screenshot of a Windows PowerShell terminal window. The title bar shows 'Windows PowerShell' with standard window controls. The terminal text shows the command 'java BoxDemo' being executed in the directory 'C:\Users\prath\Downloads'. The output is 'Volume of Box: 210.0'.

```
PS C:\Users\prath\Downloads> java BoxDemo
Volume of Box: 210.0
PS C:\Users\prath\Downloads>
```

Assignment 1:Methods :b) passing parameters

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Code:

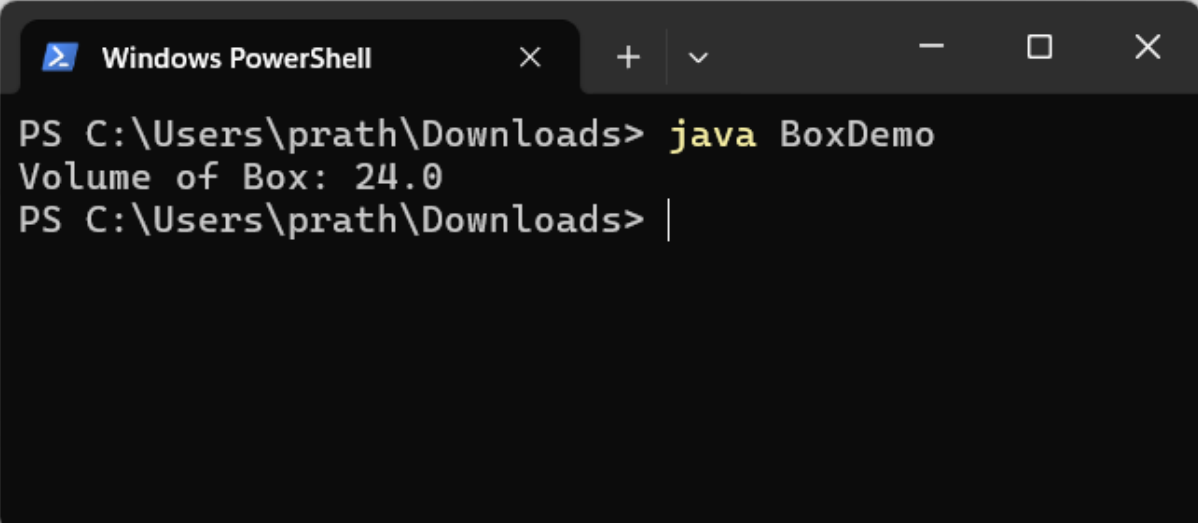
```
class Box {
    double width;
    double height;
    double depth;

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

    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();
        b1.setDimensions(2, 3, 4);
        b1.printVolume();
    }
}
```

Output:



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