# Assignment 1:Constructors : a) default / no parameter constructor.b) parameterized constructor.

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### Code:a) default / no parameter constructor

```
class Box {
    double width;
    double height;
    double depth;
Box()
      width = 10;
      height = 10;
      depth = 10;
    }
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.printVolume();
```

#### Output:

```
Windows PowerShell × + v - - X

PS C:\Users\prath\Downloads> java BoxDemo
Box created with default dimensions.

Volume of Box: 1000.0

PS C:\Users\prath\Downloads>
```

## **Code:b) Parameterized constructor.**

```
class Box
{
    double width;
    double height;
    double depth;
   Box(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(2, 3, 4);
        Box b2 = new Box(5, 6, 7);
        b1.printVolume();
        b2.printVolume();
    }
}
```

#### OutPut:

```
PS C:\Users\prath\Downloads> java BoxDemo
Volume of Box: 24.0
Volume of Box: 210.0
PS C:\Users\prath\Downloads>
```