List of JAVA Program

```
Program 5
// This program uses a parameterized method.
class Box
     double width;
     double height;
     double depth;
     // compute and return volume
     double volume()
            return width * height * depth;
      // sets dimensions of box
     void setDim(double w, double h, double d)
            width = w;
           height = h;
            depth = d;
class BoxDemo5
      public static void main(String args[])
            Box mybox1 = new Box();
            Box mybox2 = new Box();
            double vol;
            // initialize each box
            mybox1.setDim(10, 20, 15);
            mybox2.setDim(3, 6, 9);
            // get volume of first box
            vol = mybox1.volume();
            System.out.println("Volume is " + vol);
            // get volume of second box
            vol = mybox2.volume();
            System.out.println("Volume is " + vol);
Program 6
/* Here, Box uses a constructor to initialize the dimensions of a box.*/
class Box
     double width;
     double height;
     double depth;
      // This is the constructor for Box.
     Box()
            System.out.println("Constructing Box");
           width = 10;
           height = 10;
           depth = 10;
      // compute and return volume
     double volume()
            return width * height * depth;
class BoxDemo6
```

List of JAVA Program

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public static void main(String args[])
            // declare, allocate, and initialize Box objects
            Box mybox1 = new Box();
            Box mvbox2 = new Box();
            double vol;
            // get volume of first box
            vol = mybox1.volume();
            System.out.println("Volume is " + vol);
            // get volume of second box
            vol = mybox2.volume();
            System.out.println("Volume is " + vol);
When this program is run, it generates the following results:
Constructing Box
Constructing Box
Volume is 1000.0
Volume is 1000.0
Program 7
/* Here, Box uses a parameterized constructor to initialize the dimensions of a box.*/
class Box
     double width;
     double height;
     double depth;
      // This is the constructor for Box.
     Box(double w, double h, double d)
            width = w;
            height = h;
            depth = d;
      // compute and return volume
     double volume()
            return width * height * depth;
class BoxDemo7
      public static void main(String args[])
            // declare, allocate, and initialize Box objects
            Box mybox1 = new Box(10, 20, 15);
            Box mybox2 = new Box(3, 6, 9);
            double vol;
            // get volume of first box
            vol = mybox1.volume();
            System.out.println("Volume is " + vol);
            // get volume of second box
            vol = mybox2.volume();
            System.out.println("Volume is " + vol);
The output from this program is shown here:
Volume is 3000.0
Volume is 162.0
```