

Practical Set: 2

Class, object and methods in JAVA

Practical 1:

AIM: Write class Box

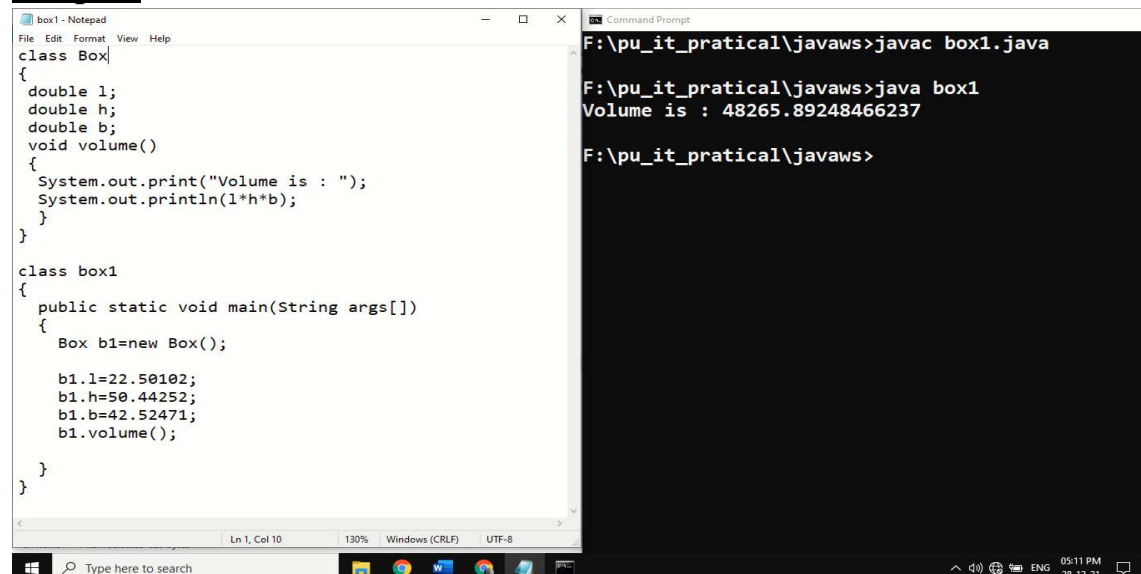
- Define data member l,b,h**
- Define method to set the data.**
- Define display method to display data member**

Code:

```
class Box
{
    double l;
    double h;
    double b;
    void volume()
    {
        System.out.print("Volume is : ");
        System.out.println(l*h*b);
    }
}

class box1
{
    public static void main(String args[])
    {
        Box b1=new Box();
        b1.l=22.50102;
        b1.h=50.44252;
        b1.b=42.52471;
        b1.volume();
    }
}
```

Output:



```
box1 - Notepad
File Edit Format View Help
class Box
{
double l;
double h;
double b;
void volume()
{
System.out.print("Volume is : ");
System.out.println(l*h*b);
}
}

class box1
{
public static void main(String args[])
{
Box b1=new Box();

b1.l=22.50102;
b1.h=50.44252;
b1.b=42.52471;
b1.volume();
}
}

Ln 1, Col 10 130% Windows (CRLF) UTF-8

F:\pu_it_practical\javaws>javac box1.java

F:\pu_it_practical\javaws>java box1
Volume is : 48265.89248466237

F:\pu_it_practical\javaws>
```

Practical 2:

AIM: Write class Box

a. Define data member l,b,h.

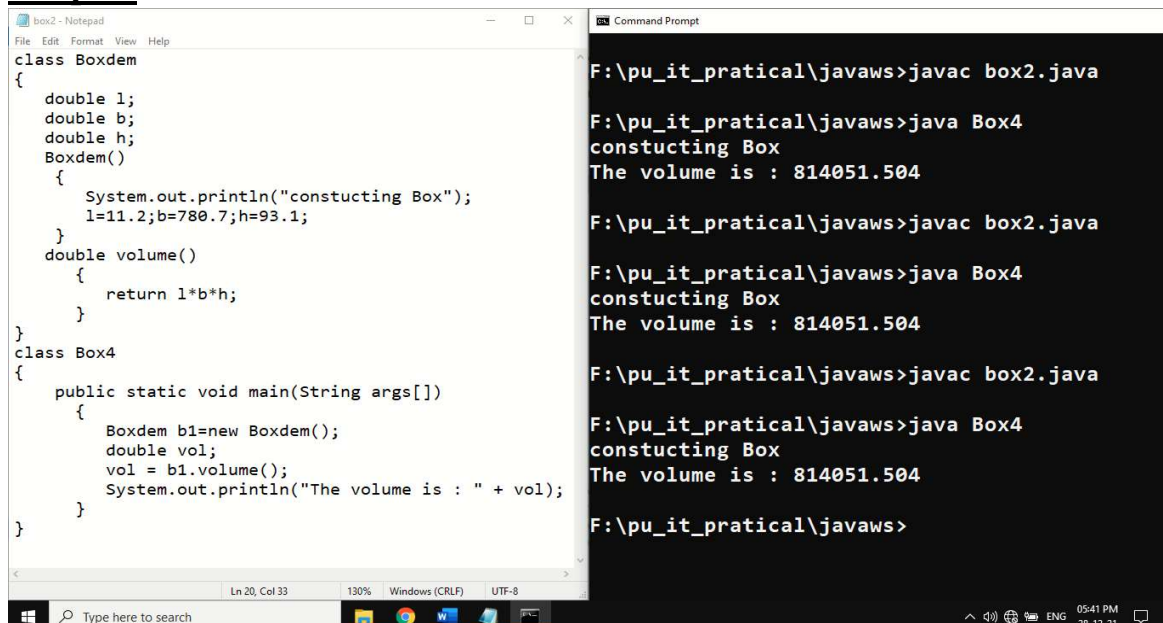
b. Define default and Parameterized constructor to initialize value of data member.

c. Define display method to display data member.

Code:

```
class Boxdem
{
    double l;
    double b;
    double h;
    Boxdem()
    {
        System.out.println("constucting Box");
        l=11.2;b=780.7;h=93.1;
    }
    double volume()
    {
        return l*b*h;
    }
}
class Box4
{
    public static void main(String args[])
    {
        Boxdem b1=new Boxdem();
        double vol;
        vol = b1.volume();
        System.out.println("The volume is : " + vol);
    }
}
```

Output:



```
box2 - Notepad
File Edit Format View Help
class Boxdem
{
    double l;
    double b;
    double h;
    Boxdem()
    {
        System.out.println("constucting Box");
        l=11.2;b=780.7;h=93.1;
    }
    double volume()
    {
        return l*b*h;
    }
}
class Box4
{
    public static void main(String args[])
    {
        Boxdem b1=new Boxdem();
        double vol;
        vol = b1.volume();
        System.out.println("The volume is : " + vol);
    }
}
Ln 20, Col 33 130% Windows (CRLF) UTF-8

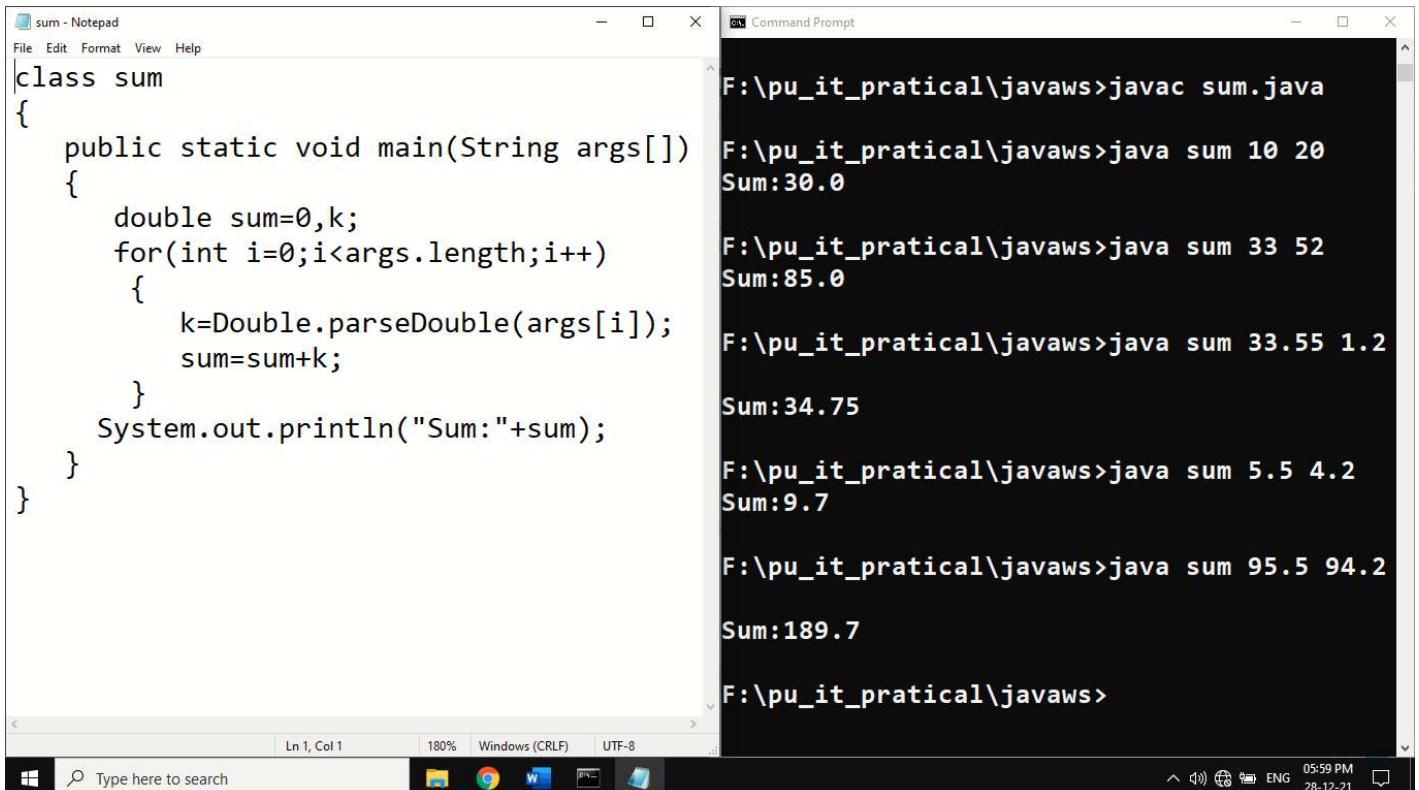
Command Prompt
F:\pu_it_practical\javaws>javac box2.java
F:\pu_it_practical\javaws>java Box4
constucting Box
The volume is : 814051.504
F:\pu_it_practical\javaws>javac box2.java
F:\pu_it_practical\javaws>java Box4
constucting Box
The volume is : 814051.504
F:\pu_it_practical\javaws>javac box2.java
F:\pu_it_practical\javaws>java Box4
constucting Box
The volume is : 814051.504
F:\pu_it_practical\javaws>
```


Practical 4:

AIM: Write a java program to do sum of command line argument passed two Double numbers.

Code:

```
class sum
{
    public static void main(String args[])
    {
        double sum=0,k;
        for(int i=0;i<args.length;i++)
        {
            k=Double.parseDouble(args[i]);
            sum=sum+k;
        }
        System.out.println("Sum:"+sum);
    }
}
```

Output:

The screenshot shows two windows side-by-side. The left window is 'sum - Notepad' containing the Java code. The right window is 'Command Prompt' showing the execution of the program with various command-line arguments and their corresponding sums.

```
sum - Notepad
File Edit Format View Help
class sum
{
    public static void main(String args[])
    {
        double sum=0,k;
        for(int i=0;i<args.length;i++)
        {
            k=Double.parseDouble(args[i]);
            sum=sum+k;
        }
        System.out.println("Sum:"+sum);
    }
}

Command Prompt
F:\pu_it_practical\javaws>javac sum.java
F:\pu_it_practical\javaws>java sum 10 20
Sum:30.0
F:\pu_it_practical\javaws>java sum 33 52
Sum:85.0
F:\pu_it_practical\javaws>java sum 33.55 1.2
Sum:34.75
F:\pu_it_practical\javaws>java sum 5.5 4.2
Sum:9.7
F:\pu_it_practical\javaws>java sum 95.5 94.2
Sum:189.7
F:\pu_it_practical\javaws>
```