

Faculty of Engineering & Technology Subject Name: Java Workshop

Subject Code: 203105259

B.Tech.: <u>IT</u> Year: <u>2021-22</u> Semester: 4

Practical Set: 2

Class, object and methods in JAVA Practical 1:

AIM: Write class Box

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

Code:

```
class Box
   double 1;
   double h;
   double b;
   void volume()
    { System.out.print("Volume is : ");
       System.out.println(l*h*b);
} }
class box 1
     public static void main(String args[])
            Box b1=\text{new Box}();
            b1.l=22.50102;
            b1.h=50.44252;
            b1.b=42.52471;
            b1.volume();
} }
```

Output:

```
:\pu_it_pratical\javaws>javac box1.java
class Box
                                                                  F:\pu_it_pratical\javaws>java box1
Volume is : 48265.89248466237
 double 1;
 double h;
double b;
 void volume()
                                                                  F:\pu_it_pratical\javaws>
  System.out.print("Volume is : ");
  System.out.println(1*h*b);
class box1
  public static void main(String args[])
{
    Box b1=new Box();
    b1.1=22.50102;
    b1.h=50.44252;
    b1.b=42.52471;
b1.volume();
                                                                                                            ^ (3) (€ 1 ENG 05:11 PM
```

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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 1*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:

```
class Boxdem
                                                F:\pu_it_pratical\javaws>javac box2.java
  double 1;
  double b;
                                                F:\pu_it_pratical\javaws>java Box4
  double h;
                                                constucting Box
  Boxdem()
                                                The volume is : 814051.504
     System.out.println("constucting Box");
     l=11.2;b=780.7;h=93.1;
                                                F:\pu_it_pratical\javaws>javac box2.java
  double volume()
                                                F:\pu_it_pratical\javaws>java Box4
       return 1*b*h;
                                                constucting Box
                                                The volume is : 814051.504
class Box4
                                                F:\pu_it_pratical\javaws>javac box2.java
   public static void main(String args[])
                                                F:\pu_it_pratical\javaws>java Box4
       Boxdem b1=new Boxdem();
                                                constucting Box
       double vol;
       vol = b1.volume();
                                                The volume is : 814051.504
       System.out.println("The volume is : " + vol);
                                                F:\pu_it_pratical\javaws>
```

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Practical 3:

AIM: Write a java Program for garbage collection.

```
Code:
```

```
class sample
{
    protected void finalize()
    {
        System.out.println("Finalize method called by garbage collector");
    }
} class GCFinalize
{
    public static void main(String[] arg)throws Throwable
    {
        for(int i=0;i<5;i++)
        {
            sample s=new sample();
            System.gc(); // forcefully calling finalize() method
            System.out.println("GC done");
        }
    }
}</pre>
```

Output:

```
Command Promp
                                                     GC done
class sample
                                                     GC done
                                                     Finalize method called by garbage collector
   protected void finalize()
                                                     GC done
                                                     Finalize method called by garbage collector
System.out.println("Finalize method calle
                    d by garbage collector");
                                                     Finalize method called by garbage collector
                                                     GC done
    }
class GCFinalize
                                                     Finalize method called by garbage collector
public static void main(String[] arg)throws Throwable
                                                     F:\pu_it_pratical\javaws>java GCFinalize
                                                     GC done
     for(int i=0;i<5;i++)
                                                     GC done
                                                     Finalize method called by garbage collector
         sample s=new sample();
                                                     Finalize method called by garbage collector
         System.gc();
       // forcefully calling finalize() method
System.out.println("GC done");
                                                     GC done
                                                     Finalize method called by garbage collector
   }
                                                     Finalize method called by garbage collector
}
                                                     GC done
                                                     F:\pu_it_pratical\javaws>
                                                                                    ^ (1)) (€) 1 ENG 05:54 PM □
```



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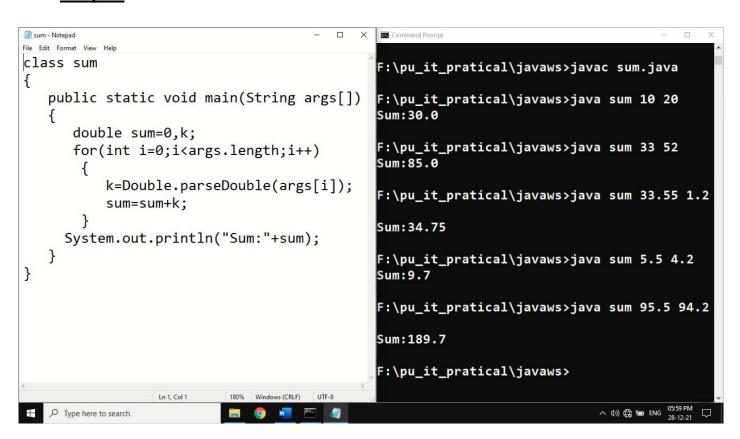
Practical 4:

<u>AIM:</u> 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);
    }
}</pre>
```

Output:



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