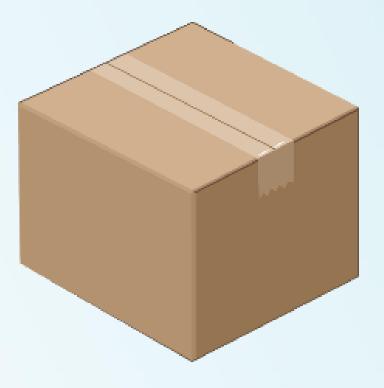


## Todays Topic

Oops Basic Practice Programs



- data member
  - Length
  - Breadth
  - height
- member functions
  - volume ()
  - setDimension(x, y, z)



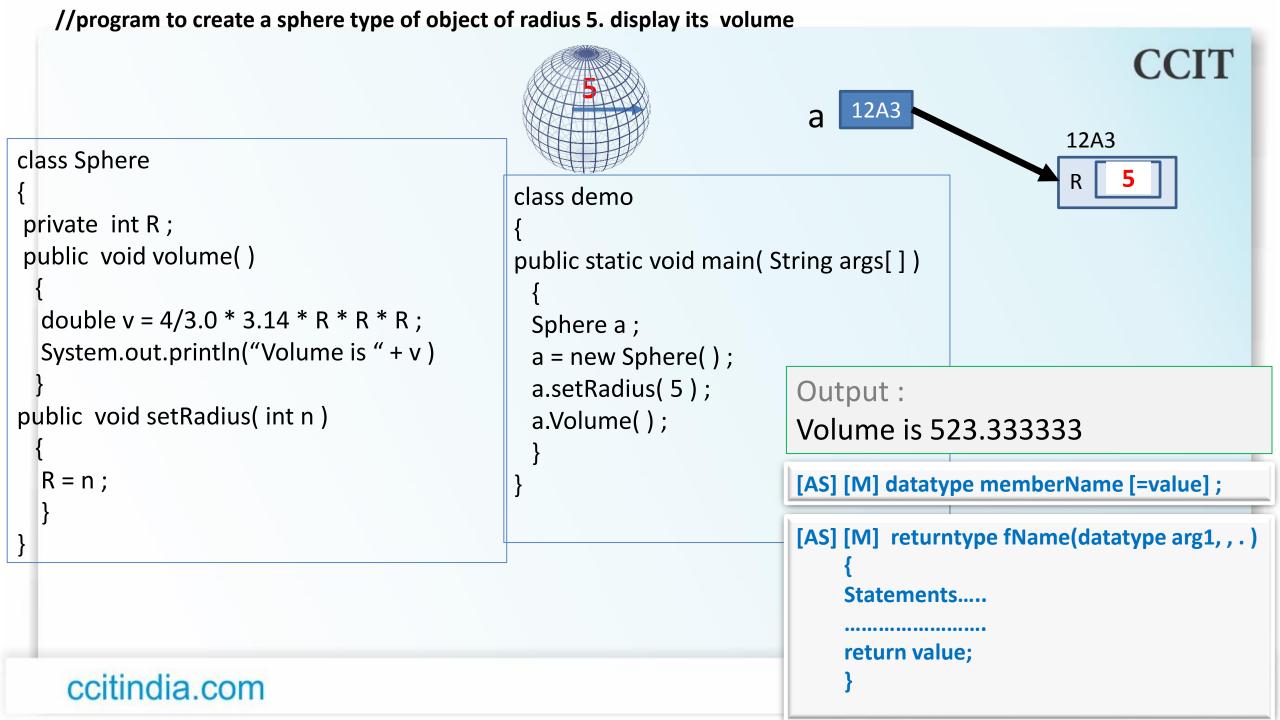


//program to create 2 boxes a and b of size 3 x 4 x 5 and 7 x 8 x 2. display volume of both boxes. class Box 12A3 12A3 private int L, B, H; L=7 B=8 H=2 L=3 B=4 H=5 public void volume() class demo int v = L \* B \* H; 5C28 System.out.println("Volume is " + v ) public static void main( String args[ ] ) public void setDimension(int x,int y,int z) Box a, b; a = new Box();L = x; b=new Box(); Output: B = y; a.setdimension(3, 4, 5); H = z; Volume is 60 b.setdimension(7,8,2) Volume is 112 a.volume(); b.volume(); ccitindia.com

- Design a class Sphere containing
  - Data members
    - Radius
  - Member functions
    - Volume()
    - setRadius( n )







- Design a class Set
  - Data members
    - N1
    - N2
    - n3
  - Member functions
    - sum()
    - mean()
    - setData(x,y,z)

```
b = { 10, 20, 25 }
```



//program to create a 2 sets a =  $\{4,5,7\}$  and b= $\{10,20,25\}$ . display sum of set a and sum, mean of set b

```
class Set
                                           a = \{4, 5, 7\}
                                                                                                12A3
                                                                                12A3
                                           b = \{ 10, 20, 25 \}
private int n1, n2, n3;
public void sum()
                                           class demo
  int s = n1 + n2 + n3;
                                           public static void main( String args[ ] )
                                                                                                5C28
  System.out.println("Sum is " + s );
                                                                                                    n1 |
                                            Set a, b;
public void mean()
                                            a = new Set();
                                                                                                    n2 20
                                            b=new Set();
  double m = (n1 + n2 + n3)/3.0;
                                            a.setData(4,5,7);
  System.out.println("Mean is " + m );
                                                                      Output:
                                            b.setData( 10 , 20 , 25 );
                                            a.sum();
                                                                      Sum is 16
public void setData(int x,int y,int z)
                                            b.sum();
                                                                       Sum is 55
                                            b.mean();
                                                                       Mean is 18.333333
 n1 = x;
 n2 = y;
 n3 = z;
     ccitindia.com
```

- Design a class Worker
  - data member
    - name
    - wages
    - wdays
  - member functions
    - setdata (n,w,d)
    - showData()
    - payment()





