

## Question 01:

// Abstract class Container

```
abstract class Container {  
    public abstract double volume();  
}
```

// Class CylindricalContainer

```
class CylindricalContainer extends Container {  
    private double height;  
    private double radius;  
  
    public CylindricalContainer(double R, double H) {  
        this.radius = R;  
        this.height = H;  
    }  
  
    public double volume() {  
        return Math.PI * radius * radius * height;  
    }  
}
```

```
// Object and Display
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        CylindricalContainer cylinder = new CylindricalContainer(5, 3);
```

```
        System.out.println("Volume : " + cylinder.volume());
```

```
    }
```

```
}
```

```
// Output : Volume : 235.619
```