## **LAB SHEET 09 – ANSWERS**

## 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(9,7);
    System.out.println("Volume : " + cylinder.volume());
}
}
```

Output of the volume is :- 1781.6431

## Question 02:

```
abstract class PC
public abstract void moveUp();
public abstract void moveDown();
public abstract void moveLeft();
public abstract void moveRight();
}
class RGP extends PlayerController
public void moveUp()
System.out.println("Player moves Up");
public void moveDown()
System.out.println("Player moves Down");
public void moveLeft()
System.out.println("Player moves Left");
```

```
public void moveRight()
System.out.println("Player moves Right");
public class Main
public static void main(String[] args)
RGP p1 = new RGP();
p1.moveUp();
p1.moveRight();
p1.moveDown();
p1.moveLeft();
Output of this program is :-
Player moves Up
Player moves Right
Player moves Down
Player moves Left
```