

## Lab 14

```
import java.util.*;
```

```
abstract class Shape {  
    int h, v;  
    abstract void printArea();  
}
```

```
class Rectangle extends Shape  
{
```

```
    void printArea() { System.out.println("Area is : " + (h*v));  
    }  
}
```

```
class Circle extends Shape  
{
```

```
    void printArea() { System.out.println("Area is : " + (3.14*h*v));  
    }  
}
```

```
class Triangle extends Shape  
{
```

```
    void printArea() { System.out.println("Area is : " + (0.5*h*v));  
    }  
}
```

```
class AbstractClass  
{
```

```
    public static void main()  
    {  
        Shape s1 = new Circle();  
        Shape s2 = new Rectangle();  
        Shape s3 = new Triangle();  
    }  
}
```

S1.  $h = 5;$

S1.  $V = 5;$

S1.  $h = 6$

S2.  $V = 10$

S1.  $h = 8$

S2.  $V = 12$

S1.  $\text{printArea}();$

S2.  $\text{printArea}();$

S3.  $\text{printArea}();$

}