Week 4

```
import java.util.Scanner;
abstract class Shape
{
Shape(){}
int height, length;
abstract void printArea();
}
class Rectangle extends Shape
Scanner S=new Scanner(System.in);
void printArea()
System.out.println("Enter height and width of rectangle");
height=S.nextInt();
length=S.nextInt();
System.out.println("Area of Rectangle is "+length*height);
}
Rectangle(){}
}
class Triangle extends Shape
Scanner S=new Scanner(System.in);
void printArea()
System.out.println("Enter height and base of triangle");
height=S.nextInt();
length=S.nextInt();
System.out.println("Area of Trianle is "+0.5*length*height);
}
Triangle(){}
class Circle extends Shape
Scanner S=new Scanner(System.in);
void printArea()
{
System.out.println("Enter radius of Circle");
height=S.nextInt();
System.out.println("Area of Circle is "+3.14*height*height);
}
```

```
Circle(){}
}

class main
{
  public static void main(String xx[])
{
  Rectangle r=new Rectangle();
  r.printArea();
  Triangle t=new Triangle();
  t.printArea();
  Circle c=new Circle();
  c.printArea();
}
```

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