Week 8
PROGRAM 1

```java
import java.util.*;
abstract class shape
{
    int length, breadth, radius;
    Scanner input = new Scanner (System.in);
    abstract void printArea();
}

class Rectangle extends shape {
    void printArea()
    {
        System.out.println("Area of Rectangle");
        System.out.println("Enter length & breadth");
        length = input.nextInt();
        breadth = input.nextInt();
        System.out.println("Area of Rectangle is:" + length
                                                    * breadth);
    }
}

class Triangle extends shape {
    void printArea()
    {
        System.out.println("\n Area of Triangle");
        System.out.println("Enter base & height:");
        length = input.nextInt();
        breadth = input.nextInt();
        System.out.println(" Area of Triangle is: + (length
                                                    * breadth)/2);
    }
}

public class AbstractClassMain {
    public static void main(String[] args) {
        Rectangle rec = new Rectangle();
        rec.printArea();
```

```
circle cri = new circle ();
cri.printArea ();
    }
}
```