3/11/20

Week 8

Lab 4

1)
```
import java.util.Scanner;
abstract class Shape {
int a, b;
Scanner sc = new Scanner(System.in);
abstract void printArea();
}


class Rectangle extends Shape {
void printArea() {
System.out.println("Enter length and breadth of
     Rectangy: ");
a = sc.nextInt();
b = sc.nextInt();
System.out.println("Area of Rectangle is: "+a*b);
}
}

class Triangle extends Shape {
void printArea() {
System.out.println("Enter base and height of Triangle:
 ");
a = sc.nextInt();
b = sc.nextInt();
System.out.println("Area of Triangle is: "+(a*b)/2);
}
}
```

```java
class Circle extends Shape {
void printArea () {
System.out.println ("Enter radius of circle : ");
a = sc.nextInt ();
System.out.println ("Area of circle is : " +3.14f *a*a);
}
}

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

Triangle tri = new Triangle ();
tri.printArea ();

Circle cir = new Circle ();
cir.printArea ();
}
}
```

②