1. Student is declared as final, which means it cannot be subclassed. So, trying to create a subclass Undergraduate extending Student will result in a compilation error.

2.

abstract calss shape

{

abstract double calarea();

public void display();

}

public class circle extends shape

{

public Double r;

public circle(double r)

{

this.r=r;

}

@Override

public double calarea()

{

double x=22/7\*r\*r;

}

@Override

public double display

{

System.out.println(“circle area is”+ x);

}

}

public calss rectangle extends shape

{

public double l;

public double w;

public rectangle(double l, double w)

{

this.l=;

this.w=w;

}

@Override

Public double calarea()

{

double q= l\*w;

}

@Override

public void display()

{

System.out.println(“rectangle area is :”+q);

}

}

public class Main {

public static void main(String[] args) {

circle a = new circle(5);

a.display();

rectangle b= new rectangle(4, 3);

b.display();

}

}