A page of a book

Description automatically generated with low confidence

**package** q8;

**abstract** **class** Shape {

**abstract** **int** edges();

**abstract** **int** vertices();

}

**class** Rectangle **extends** Shape{

**double** length=5;

**double** breadth=2;

@Override

**int** edges() {

**return** 4;

}

@Override

**int** vertices() {

**return** 4;

}

**double** area()

{

**return** length\*breadth;

}

**public** **void** display()

{

System.***out***.println("Edges:"+edges()+" Vertices:"+vertices()+" Length:"+length+" Breadth:"+breadth+" Area:"+area());

}

}

**class** Cuboid **extends** Rectangle{

**double** height=3;

**double** volume()

{

**return** area()\*height;

}

}

**package** q8;

**public** **class** ShapeDemo {

**public** **static** **void** main(String[] args) {

Shape s;

Rectangle r=**new** Rectangle();

r.display();

Cuboid c=**new** Cuboid();

System.***out***.println("Edges"+c.edges()+" Vertices:"+c.vertices()+" Length:"+c.length+" Breadth:"+c.breadth+" Height:"+c.height+" Volume:"+c.volume());;

}

}