1.)

**public** **class** Circle {

**private** **int** radius;

**private** **final** **float** pi=3.14f;

**public** Circle(**int** r) {

**this**.radius=r;

}

}

2.)

**public** **abstract** **class** Connector {

**public** **abstract** **void** openConnection();

**public** **abstract** **void** closeConnection();

**public** **abstract** **void** fireQuery();

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

**int** show;

}

**public** **void** loadedDBConnection() {

**int** conn;

}

}

**public** **class** MsSQLConnection **extends** Connector{

**public** **void** openConnection() {

}

**public** **void** closeConnection() {

}

**public** **void** fireQuery() {

}

}

**public** **class** Driver {

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

MsSQLConnection ms = **new** MsSQLConnection();

ms.display();

ms.closeConnection();

ms.fireQuery();

}

}

3.)

**public** **class** Rectangle {

**int** len;

**int** bred;

**public** Rectangle(**int** len,**int** bred) {

**this**.len = len;

**this**.bred=bred;

}

**public** **void** calArea(){

System.***out***.println("This is area of rectangle");

}

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

Rectangle rec = **new** Rectangle(12,13);

System.***out***.println("The Rectangle member instance is Length["+rec.len+"]"+" Breadth["+rec.bred+"].");

}

}

**public** **class** Square **extends** Rectangle {

**public** Square(**int** len, **int** bred) {

**super**(len, bred);

}

**public** **void** calArea(){

System.***out***.println("This is area of Sqaure");

}

}

4.) Not equal