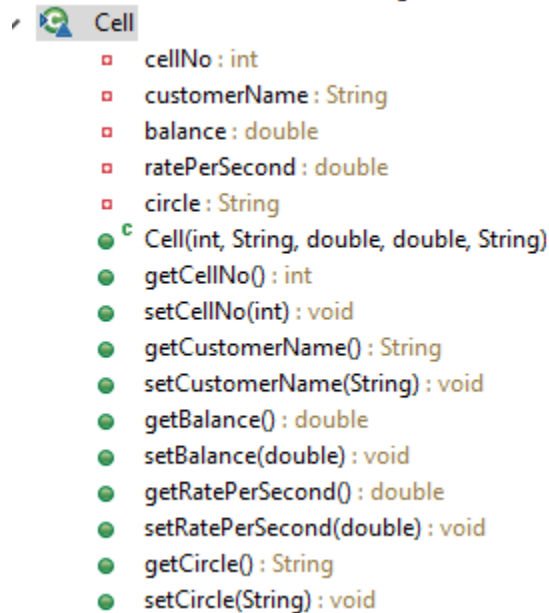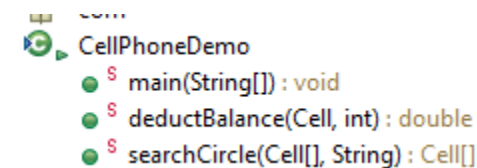Create package com

Create class Cell in com package with attributes as below. Constructor takes parameters in same sequence as per the image. Create getters and setters.

Cell
- cellNo : int
- customerName : String
- balance : double
- ratePerSecond : double
- circle : String
- Cell(int, String, double, double, String)
- getCellNo() : int
- setCellNo(int) : void
- getCustomerName() : String
- setCustomerName(String) : void
- getBalance() : double
- setBalance(double) : void
- getRatePerSecond() : double
- setRatePerSecond(double) : void
- getCircle() : String
- setCircle(String) : void

Create class CellPhoneDemo in com package with main method and other two static methods as below.

com
CellPhoneDemo
- main(String[]) : void
- deductBalance(Cell, int) : double
- searchCircle(Cell[], String) : Cell[]

Method "deductBalance" will take one Cell object and integer value. The integer value represents no of Seconds. Method will deduct the balance in Cell object based on ratePerSecond value. Return new balance value.

Method searchCircle will take array of Cell objects and circle name. It will return array of Cell objects falling in that circle.

Please ensure that class names, attribute names, method signature etc. is same as above. Else your code will fail and score would be zero.

Refer below sample main method and test the output. You can copy the same code in main method and test the implementation.

Next submit the code in iASCERT for evaluation. Also, upload the code in iON assignment activity.

Sample main method:

```java
public static void main(String[] args) {
        // TODO Auto-generated method stub

        Cell[] cells = new Cell[5];

        cells[0] = new Cell(1,"aaa",50,0.5,"mum");
        cells[1] = new Cell(2,"aaa",40,0.5,"ahd");
        cells[2] = new Cell(3,"aaa",30,0.5,"pne");
        cells[3] = new Cell(4,"aaa",55,0.5,"mum");
        cells[4] = new Cell(5,"aaa",60,0.5,"pne");

        System.out.println(deductBalance(cells[0],10));


        Cell[] newCells = searchCircle(cells,"mum");

        for(Cell cell:newCells)
        {
                System.out.println(cell.getCellNo());
        }
```

Output:

45.0
1
4