

Practical Assignment 1

ITRW222

Design a Java classes and a driver (test) program for the following scenario. Your superclass should keep track of the detail of cell phone users. There are two types of users: Contract users and Prepaid users. For all users you need to store the following:

1. Name
2. Address line1
3. Address line2
4. Postal Code
5. Service Provider
6. Cell number

For prepaid users, you should store the following additional fields:

1. Data Balance
2. Minutes Balance
3. Amount Balance

For Contract users, you should store the following addition fields:

1. Contract Start date
2. Contract Description
3. Phone Description
4. Free minutes left
5. Free SMSs left

You should add a `toString()` method to all classes, this method should return a string consisting of:

1. For `CellUsers`: [name, cell number]
2. For `PrepaidUsers`: [name, cell number, Amount Balance]
3. For `ContractUsers`: [name, cell number, Phone Description]

You should also create an `showAccount()` method that is ABSTRACT – you may design your own output. The method should return a formatted string and SHOULD NOT display the data on screen.

Create a Test program that:

Creates an array of 5 `CellUsers`. Add data in the code. Use a loop to call the `toString()` methods implicitly and the `showAccount()` methods explicitly.