

CSC 317 JAVA II

Week 1

Objectives:

1. To building class and objects.
2. To controlling access to members of a class
3. To create constructors and overloaded constructors.

Examples

```
public class Person
{
    private String firstName;
    private String lastName;
    private int age;

    public Person(String first, String last, int ag)
    {
        firstName = first;
        lastName = last;
        age = ag;
    }

    public String getFirstName()
    {
        return firstName;
    }

    public String getFullName()
    {
        //put some code here!
    }
}
```

Exercise

- Design and implement a DuAccount class to be used with Person, this new DuAccount class should calculate a customer's monthly "Du" bill according to the following criteria:
 - The monthly flat rate is AED 100.
 - A customer may have 5 TV channels at no extra charge but each additional channel incurs a charge of 10 Dirhams each.
 - Phone calls to landlines ('04') are free but calls to mobiles ('05') are charged at 0.5 Dirhams per minute.
- Since the DuAccount class is not directly accessible, design a test class to verify that DuAccount is working correctly.
- input for the test class might be something like this:-
 - The 3rd argument represents the number of TV channels, the 4th
 - argument indicates the number of minutes talking to '05' numbers

```
Person david = new Person("David", "Smith", 11, 25);
```
- The object's output should be formatted like this:

David Smith's Du bill for this month is AED 140.55