

CECS 174 – Lecture 27

Static Variables and Methods –

Static refers to a variable or method that is not attached to a particular object, but attached to the class itself.

```
public class Employee
{
```

Static Variable – are made to keep information about the collective objects or on the class itself.

```
    private static int empCounter=0;

    private String name;
    private int id;

    //constructor
    public Employee(String n, int i){
        name=n;
        id=i;
        empCounter++;
    }
```

Static Method – methods that acts on the class rather than the object. Only static methods can access static variables and other static methods.

```
    //gets the number of employees created
    public static int getEmpCtr(){
        return empCounter;
    }

    public void displayEmp(){
        System.out.println("Name: "+name);
        System.out.println("ID: "+id);
    }
}
```

Using Statics – Static methods are available by calling the class rather than the object.

```
public class TestEmp{
    public static void main( String [] args ){
        Employee e1 = new Employee("John", 1234);
        Employee e2 = new Employee("Joe", 1235);
        System.out.println("#:" + Employee.getEmpCtr());

        e1.displayEmp();
        e2.displayEmp();
    }
}
```