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| cORK iNSTITUTE OF TECHNOLOGY |
| Advanced Object Technology |
| Assignment 1 |
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| **Jimmy Collins – R00145569** |
| **[Pick the date]** |

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## Section 1 – Demonstrated Use of Object Orientated Concepts

### Re-Use

TODO

### Encapsulation

TODO – demonstrated by TrafficFileStats.java?

### Abstraction

TODO

### Inheritance

TODO

### Overloading

TODO

### Dynamic Binding

TODO

### Inner Class

TODO

### Nested Class

TODO

### Abstract Class

Covered by GraphStrategy – just make this interface abstract? (Interfaces are inherently abstract).

### Generic Method

TODO – used in Utility.java – SortMapByValue

### Generic Class

TODO – ArrayList?

### Bounding

TODO used in Utility.java – GetTopElements

### Custom Exception Handler Type

TODO

## Section 2 – Usage of Design Patterns

### Strategy Pattern

This is used to allow choosing of different chart types – pie chart, bar chart etc. Support for other charts could be added easily. User can also change chart types dynamically at runtime.

### Observer Pattern

TODO

### Factory Pattern

TODO

## Section 3 – System UML Diagrams

TODO

## Section 4 – Code Screen Captures

TODO

## Section 5 – Evaluation of Work