ΕΘΝΙΚΟ ΜΕΤΣΟΒΙΟ ΠΟΛΥΤΕΧΝΕΙΟ
ΣΧΟΛΗ ΑΓΡΟΝΟΜΩΝ ΚΑΙ ΤΟΠΟΓΡΑΦΩΝ ΜΗΧΑΝΙΚΩΝ Διεπιστημονικό
Διατμηματικό Πρόγραμμα Μεταπτυχιακών Σπουδών **'Γεωπληροφορική'**

ΑΝΤΙΚΕΙΜΕΝΟΣΤΡΑΦΗΣ ΑΝΑΠΑΡΑΣΤΑΣΗ (ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΣ) ΚΑΙ ΒΑΣΕΙΣ ΓΝΩΣΗΣ

Αργιαλάς Δημήτρης

Objects and Groups of objects

- OOP
- Fig. 3.16 The object oriented approach
- Features are grouped into classes and hierarchies of objects
- Resembles natural language descriptions
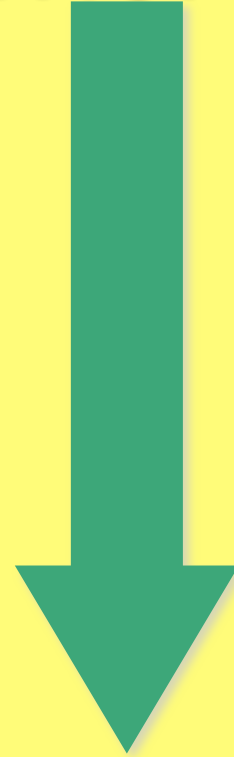- AIM: Conceptual Model closer to real world things

Define collections of objects:

- Their characteristics (spatial, topological)
- Their activities
- Their relationship with other objects
- Their classes / inheritance relationships

Entity = object =

state + behavior

Attribute values

Methods operating on the attributes

Entity = object = state + behavior

- **Composite objects – Part of Hierarchies**

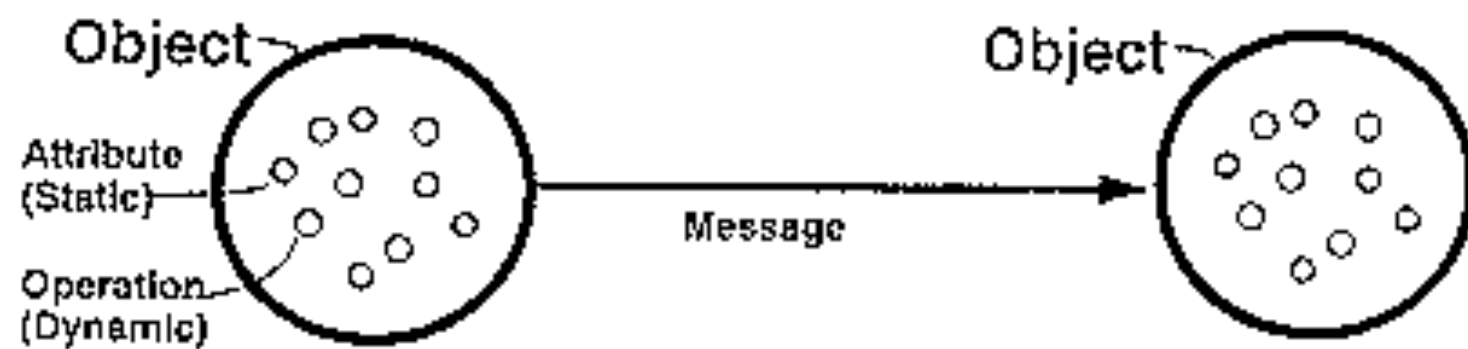- **Class – Subclass hierarchies**

- **Inheritance of properties**

Figure 2.21 Objects encapsulate state and behaviour and communicate via messages.
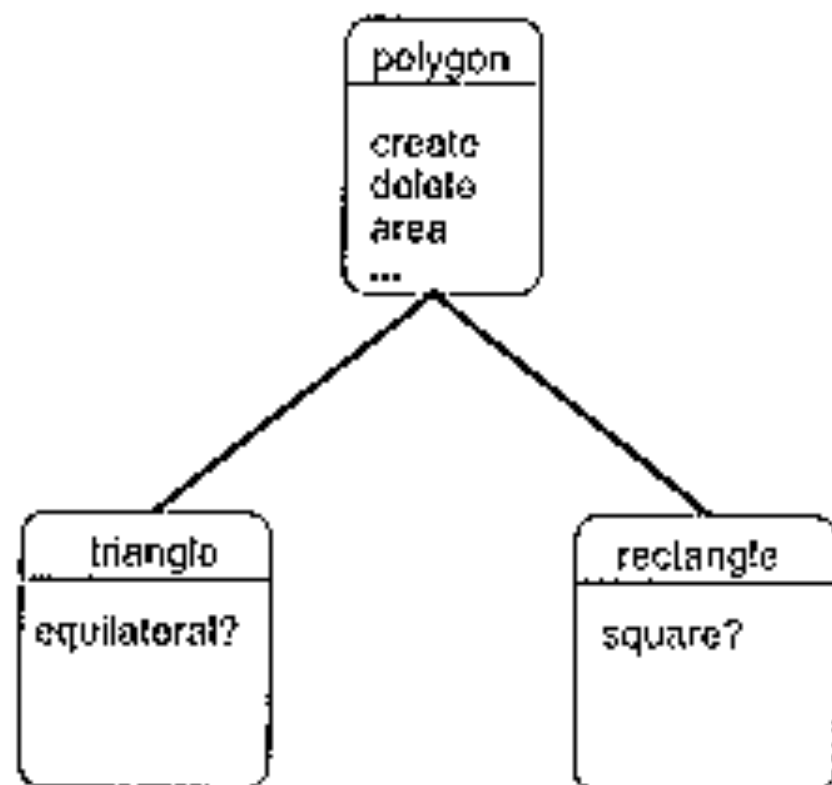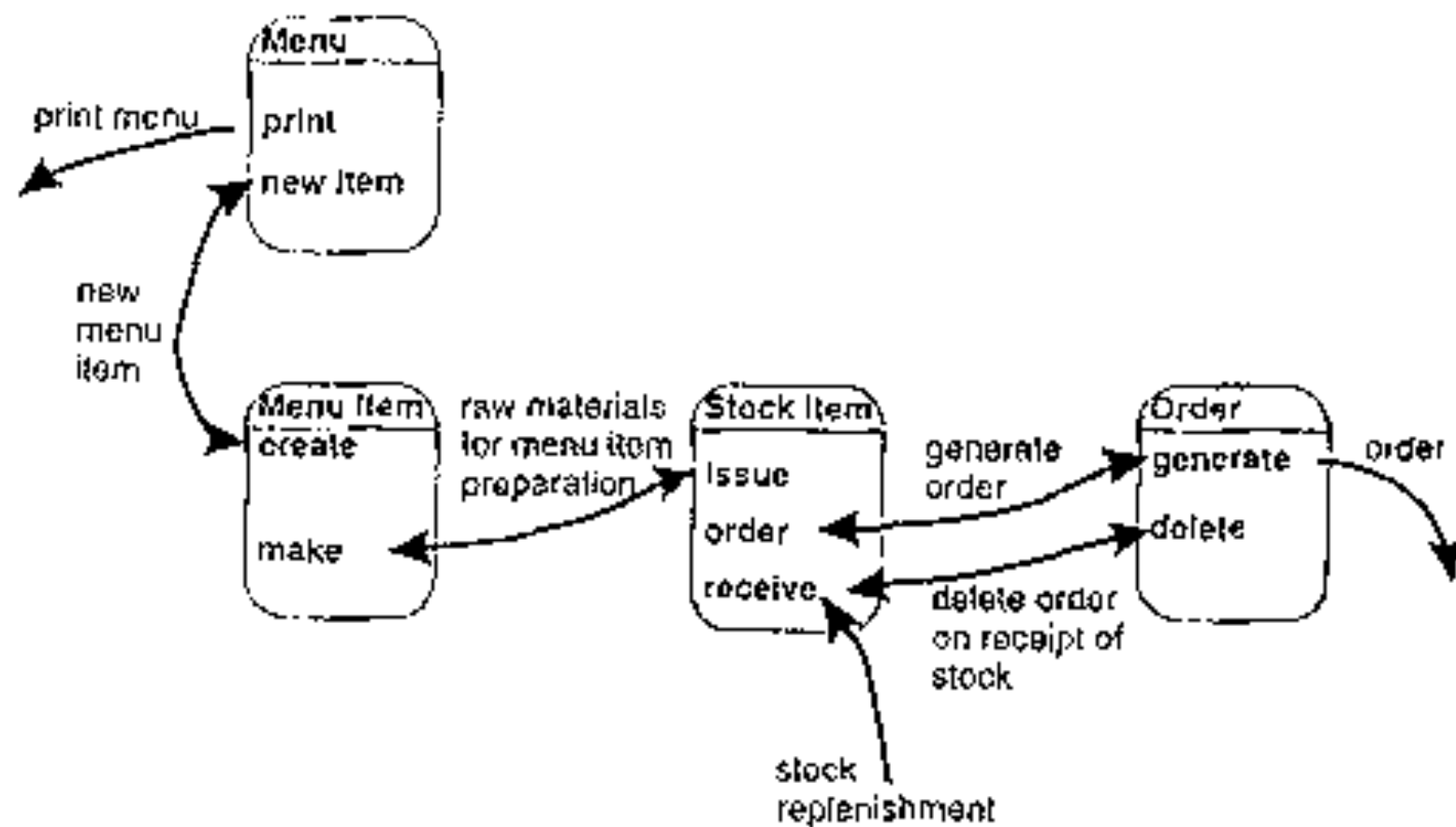
Figure 2.22 Object diagram showing inheritance of operations.

Figure 2.23 An example of an Object Interconnection Network Diagram.