

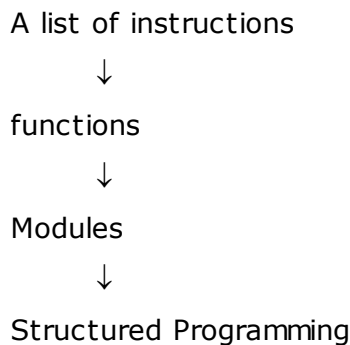
APPLICATION OF OOP

- (a) Real time systems.
- (b) Simulation and Modelling
- (c) Object oriented database
- (d) AI and expert system
- (e) Neural networks and parallel programming.

Why do we need OOP, what is the principle behind OOP. Limitations with earlier language.

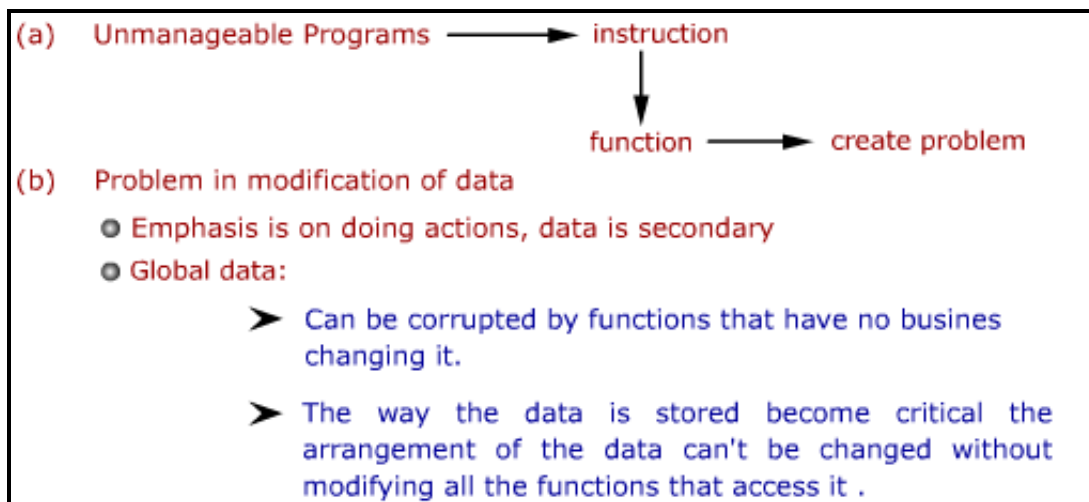
Two key concepts in OOP are objects and classes.

Procedural language:



No matter how well the structured programming approach is implemented, large programs becomes excessively complex.

Limitations



If you add new data items, modify all the functions.

What we need is a way to restrict access to the data, to hide it from all but a few critical functions. This will protect the data.

Difficulty in implementation

Relationship to the real world

New data types - extensibility

So the object oriented Approach

data + functions - object

Member function