Object Oriented Analysis & Design
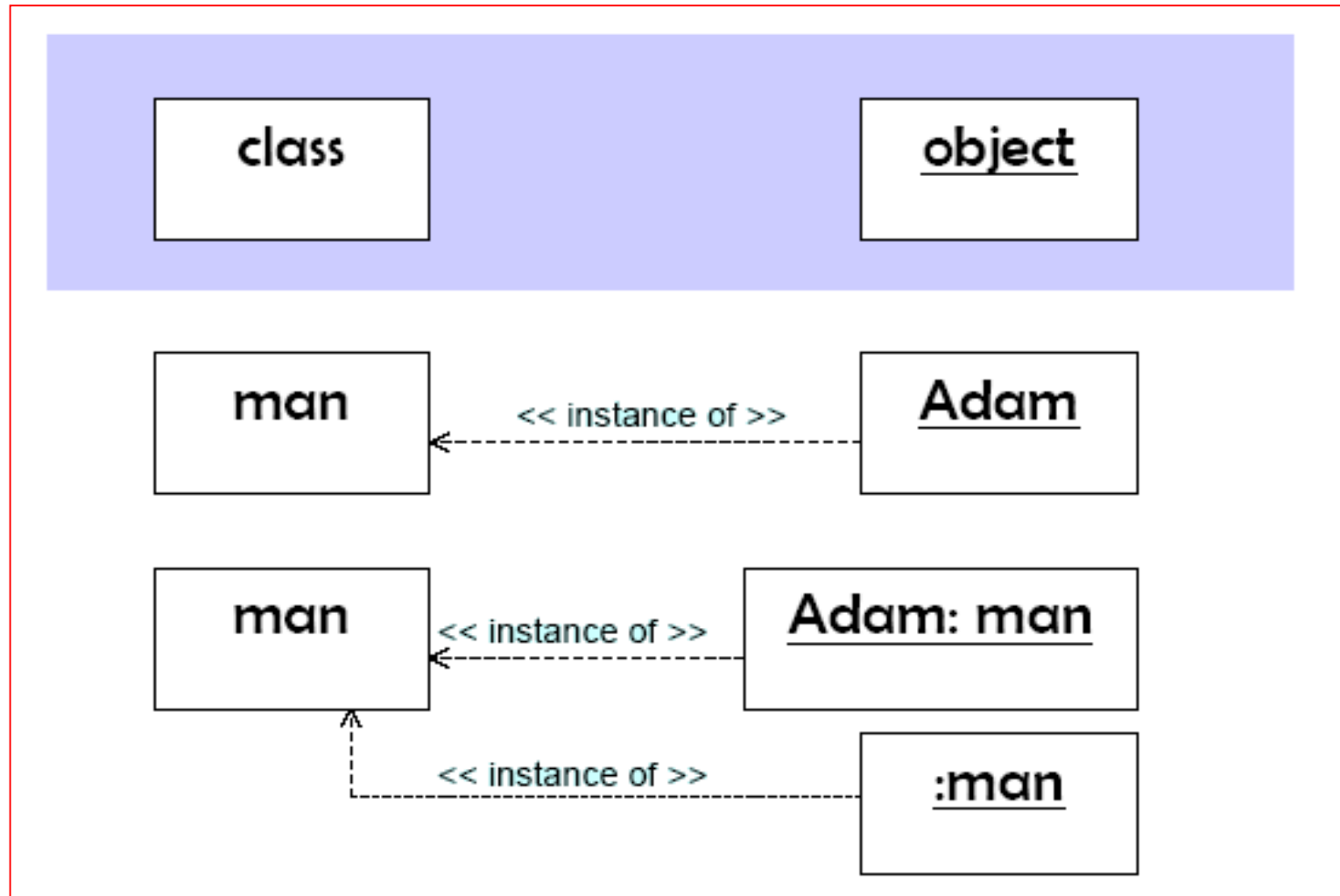# Module-1 (RL 1.5.1)

Sanjay Joshi

BITS Pilani

Pilani|Dubai|Goa|Hyderabad

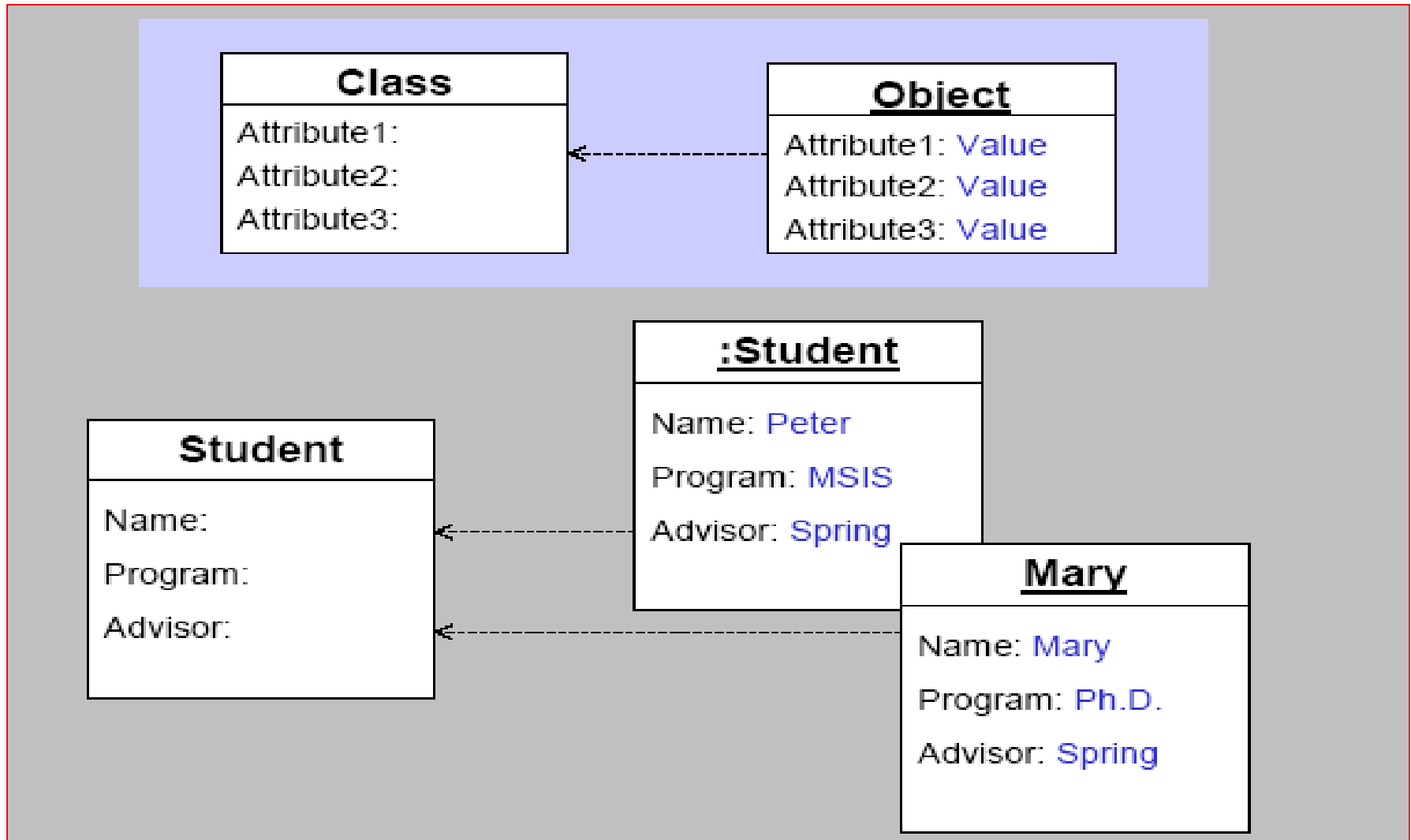**BITS** Pilani

Concept of Class & Object
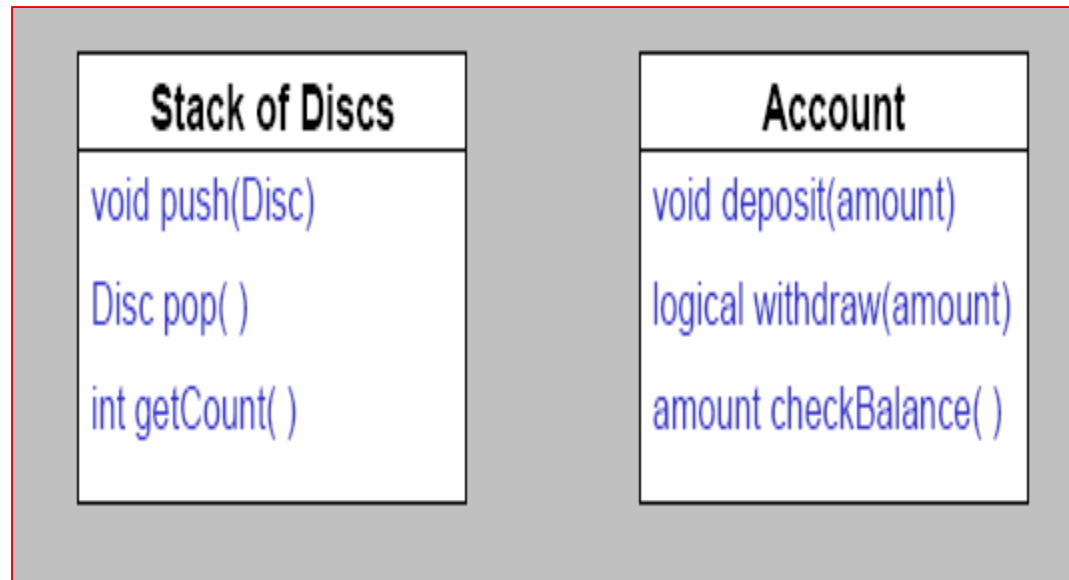
Class and Object: in UML

Attributes

- The class captures the abstraction of properties in the set of objects.

- **An attribute** of a class is identified by **name**, and it identifies a property of the objects of the class, for which each object takes a **value**.

Attributes: in UML

Operations

- The operations are the "responsibilities" –
  the things we can ask an object to do.
- Note that these are classes
- Should we have open( ) and close( ) with Account?

Stack of Discs
void push(Disc)
Disc pop( )
int getCount( )

Account
void deposit(amount)
logical withdraw(amount)
amount checkBalance( )

Operations: in UML

Class
return-type name(…parameters list…)
. . .
create(…) // Constructor - CTOR
destroy( ) // Destructor - DTOR

deposit($1000) →

:Account
void deposit(amount)
logical withdraw(amount)
amount checkBalance( )