# ACS 560 Software Engineering

# Homework 05

# (Ashwini Kulkarni)

**UML diagram**

* Class Diagram

3 classes

1. Movies (It holds Movie Title and Price)
2. Rental (It holds relation to object movie, and days rented)
3. Customer (It holds Customer Name and Rental Vector as one customer can rent no. of movies )

+ getPriceCode(): return int

+setPriceCode(arg:int)

+getTitle (): return String

Movie

Rental

-\_title: String

-\_priceCode:Int

+CHILDRENS:int Const

+REGULAR:int Const

+NEW\_RELEASE:int Const

-\_movie: Movie

-\_daysRented: int

+getDaysRented():Return int

+getMovie(): Return Movie

Customer

-\_name: String

-\_rental: Vector

+addRental (arg:Rental)

+getName (): Return String

+statement(): Return String

Class Diagram

1..\*

1

Note: In case drawing in above canvas is shattered because of opening this file in other Word version then Refer following Inserted image:



* Sequence Diagram

Sequence diagram for the interactions for the statement method:

As per the code statement method calls three methods of other classes

* getMovie() : Method from class “Rental”
* getPriceCode() : Method from class “Movie”
* getDaysRented():Method from class “Rental”

So sequence diagram will be as follows =>

For no. of rental

getDaysRented

getPriceCode

getMovie

Customer

Rental

Movie

Statement

**Sequence Diagram**

Note: In case drawing in above canvas is shattered because of opening this file in other Word version then Refer following Inserted image:



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