**CS 249-01** **Spring 2016**

# Object-Oriented Programming Dr. R.J. Mullick

**Homework Assignment # 3**

**Due Thursday March 17, 2016.**

**GHP #4 – Due March 17, 2016 MODIFIED BY RJM**

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Define a class named **Payment**  that contains an instance variable of type **double** that stores the amount of the payment and appropriate accessor and mutator methods. Also create a method named **paymentDetails** that outputs an English sentence to describe the amount of the payment.

Next, define a class named **CashPayment** that is derived from **Payment.** This class should redefine the **paymentDetails** method to indicate that the payment is in cash. Include appropriate constructor(s).

Define a class named **CreditCardPayment** that is derived from **Payment**. This class should contain instance variables for the name on the card, expiration date, and credit card number. Include appropriate constructor(s). Finally, redefine the **paymentDetails** method to include all credit card information in the printout.

Create main method that creates at least two **CashPayment** and two **CreditCardPayment** objects with different values and calls **paymentDetails** for each.

**Be sure to make the program general so that a user can enter data!!! Also you program should follow the guidelines for documentation**