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MAIN PROGRAM

Author : Jonathan Parrilla

Course : COP 3804 Days and Time

Professor : Michael Robinson

Program # : Program Purpose/Description

Purpose of this program is to implent classes using:

- Polymorphism

- Inheritance

- Interfaces

- Abstract classes, methods, variables

- Classes inside classes

Due Date : 10/31/2012

Certification:

I hereby certify that this work is my own and none of it is the work of any other person.

..........{ your signature }..........

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**public** **class** ParrillaJPgm3

{

//Divider Method

**public** **static** **void** div()

{

System.*out*.println();

System.*out*.println("---------------------------------------------------- --");

System.*out*.println();

}

//Print a line Method

**public** **static** **void** pl()

{

System.*out*.println();

}

//usingInterface Method

**public** **static** **void** usingInterface()

{

superCustomer rCust = **new** retailCustomer();

**for**(Object temp: rCust.getCustomerData())

{

System.*out*.println(temp);

}

}

//usingAbstractClass Method

**public** **static** **void** usingAbstractClass()

{

//Calling regular methods from abstractClass

abstractClass.*methodOne*();

*pl*();

abstractClass.*methodTwo*();

*pl*();

//Creating object from the class that inherits from abstractClass

extendsAbstractClass AnObject = **new** extendsAbstractClass();

//Calling all methods object has access to

AnObject.hello();

*pl*();

AnObject.*methodOne*();

*pl*();

AnObject.*methodTwo*();

}

//Main Method

**public** **static** **void** main(String arg[]) **throws** InterruptedException

{

*usingInterface*();

*div*();

*usingAbstractClass*();

*div*();

}

}//End of class ParrillaJPgm3

//abstractClass - a Class within a class(ParrillaJPgm3)

//abstractClass is also a Super Class

**abstract** **class** abstractClass

{

//Abstract method - Does Nothing

**abstract** **void** hello();

//MethodOne - It identifies itself

**public** **static** **void** methodOne()

{

System.*out*.println( "I am methodOne, regular method in the abstractClass" );

}

//MethodTwo - It identifies itself

**public** **static** **void** methodTwo()

{

System.*out*.println( "I am methodTwo, regular method in the abstractClass" );

}

}//End of Abstract Class abstractClass

//extendsAbstractClass - a sub class of a class within a class(abstractClass)

**class** extendsAbstractClass **extends** abstractClass

{

//abstract method hello() implementation

**public** **void** hello()

{

System.*out*.println("I am the implementation of the abstract method 'hello();'");

}

//MethodOne - It identifies itself

//overrides MethodOne from abstractClass

**public** **static** **void** methodOne()

{

System.*out*.println( "I am methodOne, a method in the extendsAbstractClass" );

}

//MethodTwo - It identifies itself

//overrides MethodTwo from abstractClass

**public** **static** **void** methodTwo()

{

System.*out*.println( "I am methodTwo, a method in the extendsAbstractClass" );

}

}//End of class extendsAbstractClass

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INTERFACE

Author : Jonathan Parrilla

Course : COP 3804 Days and Time

Professor : Michael Robinson

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**public** **interface** customerInterface

{

**public** String *customerType* = "I am the interface";

**public** String *customerID* = "";

**public** String *customerLastName* = "";

**public** String *customerFirstName* = "";

**public** String *customerMiddleName* = "";

**public** String *customerAddress1* = "";

**public** String *customerAddress2* = "";

**public** String *customerCity* = "";

**public** String *customerState* = "";

**public** String *customerCountry* = "";

**public** String *customerZipCode* = "";

**public** String *customerTelNumber* = "";

**public** **void** setCustomerType( String customerType );

**public** **void** setCustomerID( String customerID );

**public** **void** setCustomerLastName( String customerLastName );

**public** **void** setCustomerFirstName( String customerFirstName );

**public** **void** setCustomerMiddleName( String customerMiddleName );

**public** **void** setCustomerAddress1( String customerAddress1 );

**public** **void** setCustomerAddress2( String customerAddress2 );

**public** **void** setCustomerCity( String customerCity );

**public** **void** setCustomerState( String customerState );

**public** **void** setCustomerCountry( String customerCountryName );

**public** **void** setCustomerZipCode( String customerZipCode );

**public** **void** setCustomerTelNumber( String customerTelNumber );

}

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SUPERCLASS superCustomer

Author : Jonathan Parrilla

Course : COP 3804 Days and Time

Professor : Michael Robinson

Program # : Program Purpose/Description

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**public** **class** superCustomer **implements** customerInterface

{

//Manually Implementing the interface variables

**public** String customerType = "I am the SuperCustomer";

**public** String customerID = "3767284";

**public** String customerLastName = "Parrilla";

**public** String customerFirstName = "Jonathan";

**public** String customerMiddleName = "Alfonso";

**public** String customerAddress1 = "10637 Hammocks Blvd.";

**public** String customerAddress2 = "Apt 918";

**public** String customerCity = "Miami";

**public** String customerState = "Florida";

**public** String customerCountry = "United States of America";

**public** String customerZipCode = "33196";

**public** String customerTelNumber = "3055823112";

//Implementation Methods

**public** **void** setCustomerType( String customerType )

{

**this**.customerType = customerType;

}

**public** **void** setCustomerID( String customerID )

{

**this**.customerID = customerID;

}

**public** **void** setCustomerLastName( String customerLastName )

{

**this**.customerLastName = customerLastName;

}

**public** **void** setCustomerFirstName( String customerFirstName )

{

**this**.customerFirstName = customerFirstName;

}

**public** **void** setCustomerMiddleName( String customerMiddleName )

{

**this**.customerMiddleName = customerMiddleName;

}

**public** **void** setCustomerAddress1( String customerAddress1 )

{

**this**.customerAddress1 = customerAddress1;

}

**public** **void** setCustomerAddress2( String customerAddress2 )

{

**this**.customerAddress2 = customerAddress2;

}

**public** **void** setCustomerCity( String customerCity )

{

**this**.customerCity = customerCity;

}

**public** **void** setCustomerState( String customerState )

{

**this**.customerState = customerState;

}

**public** **void** setCustomerCountry( String customerCountry)

{

**this**.customerCountry = customerCountry;

}

**public** **void** setCustomerZipCode( String customerZipCode )

{

**this**.customerZipCode = customerZipCode;

}

**public** **void** setCustomerTelNumber( String customerTelNumber )

{

**this**.customerTelNumber = customerTelNumber;

}

//Interface Variable Arrays Method

**public** Object[] getCustomerData()

{

Object customerData[] = {customerType, customerID,

customerLastName, customerFirstName, customerMiddleName, customerAddress1, customerAddress2, customerCity, customerState, customerCountry, customerZipCode,customerTelNumber};

**return** customerData;

}

}

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SUBCLASS retailCustomer

Author : Jonathan Parrilla

Course : COP 3804 Days and Time

Professor : Michael Robinson

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**public** **class** retailCustomer **extends** superCustomer

{

**public** String customerType = "I am the retailCustomer";

}