**Pseudocode For Object Class – BusinessAccount**

**BEGIN** // Start of object class

**Declare Variables**

**Private intAccRefNo**  (the account reference number – set at 10.0 %)

**public BusinessAccount extends GasAccount** (int intNewAccRefNo, String strNewName, String strNewAddress, double dblNewUnits, double dblNewDiscount)

**Begin**

**Set** intNewAccRefNo to parameter type integer

**Set** strNewName to parameter type String

**Set** strNewAddress to parameter type String

**Set** dblNewUnits to parameter type double

**Set** dblNewDiscount to parmeter type double

**END**

**super**(intNewAccRefNo, strNewName, strNewAddress, dblNewUnits)

**Begin**

**Set** intNewAccRefNo to Integer

**Set** strNewName to String

**Set** strNewAddress to String

**Set** dblNewUnits to double

**Set** this.dblNewDiscount = dblNewDiscount

**End**

**public void setDblNewDiscount(double dblNewDiscount)**

**Begin**

**Set**  this.dblNewDiscount = dblNewDiscount

**End** //end of method setDblNewDiscount

**public double getDiscount()**

**Begin**

**Return** double dblNewDiscount //discounted amount

**End** //end of method getDiscount

**public String recordUnits(double dblUnitsUsed)**

**Begin**

**IF** (dblUnitsUsed<0.0){//validation

return "Error - Must Be Positive Value";//Invalid input type

}

**ELSE** {

//calculate total cost - units\*unitsUsed

**Set** double totalCost = getUnitCost() \* dblUnitsUsed

//calculate discount

**Set** double disAm = (totalCost/100)\* dblNewDiscount;

//adding newTotal to balance

**Set** double newTotal = totalCost – disAm //calculation

**Set** double balance = getBalance() + newTotal;

//setting new balance

setDblBalance (balance);

return **OUTPUT STRING** "Transaction Successful";

**End IF ELSE**//end of method recordUnits

**END**