**Pseudocode For Object Class – Gas Account**

**BEGIN** // Start of object class

**Declare Variables**

**intAccRefNo**  (the account reference number)

**strName**  (the name of the account holder)

**strAddress** (the address of the account holder)

**dblBalance**  (the balance of the account in £)

**dblUnits**  (the current quantity of units used)

**dblUnitCost**  (the price per unit - initialised = 0.02)

**public GasAccount** (intAccRefNo, strName, strAddress, dblNewUnits)//Constructor

**BEGIN**

**Set** intAccRefNo to parameter type integer

Set strName to parmeter type String

Set strAddress to parmeter type String

Set dblNewUnits to parmeter type double

**Declare** dblBalance double

dblBalance = dblNewUnits \* dblUnitCost

**END**

**public GasAccount** (intAccRefNo, strName, strAddress) //Overloaded Constructor

**BEGIN**

Set intAccRefNo to parameter type integer

Set strName to parmeter type String

Set strAddress to parmeter type String

**END**

**public void deposit** (double dblDepositAmount)//deposit amount of balance

**BEGIN**

**IF** (dblDepositAmount > 0.0) **THEN**

dblBalance = dblBalance - dblDepositAmount

**END IF**

**public String recordUnits** (double dblUnitsUsed)// for adding units used to balance

**BEGIN**

**SET** String result = "Transaction Successful"

**SET** String error = "Error - Must be Positive Value"

**IF**(dblUnitsUsed < 0.0) **THEN**

**Output String** error

**ELSE {**

**SET** double dblCurrentCost;

**SET** double dblBalance

**SET** dblCurrentCost = dblUnitsUsed \* dblUnitCost;

**SET** dblBalance = dblBalance + dblCurrentCost;

**Then** return "Transaction Successful"

**END IF**

**END //of method recordUnits**

**public int getAccRefNo()**

**Begin**

**Return** strName

**End** // of method

**public void setIntAccRefNo(int intAccRefNo)**

**Begin**

**IF(**intAccRefNo > 0) **THEN**

**SET**  this**.**setIntAccRefNo = setIntAccRefNo

**Void** //Resetting account number

**End** //end of method

**public String getName()**

**Begin**

**Return** strName

**End** // end of method

**public String setStrName(String strName)**

**Begin**

**IF** (strName != null) **THEN**

**SET** this.setStrName = setStrName

**Void**

**End** // End of method

**public String getAddress()**

**Begin**

**Return** String strName

**End //** end of method

**public void setStrAddress (String strAddress)**

**Begin**

**IF** (strAddress != null) **THEN**

**SET** this.setStrAddress = setStrAddress

**Return** Void

**End** // end of method

**public double getBalance()**

**Begin**

**Return** dblBalance;

**End** //end of method getBalance

**public void setDblBalance(double dblBalance**)

**Begin**

**Return** Void

**IF** (dblBalance>=0.0) **THEN**

**SET** this.dblBalance = dblBalance;

**End** //end of void method setDblBalance

**public double getUnitCost()**

**Return** double dblUnitCost;

**End** //end of method getUnitCost

**public void setDblUnitCost(double dblUnitCost)**

**Begin**

**IF** (dblUnitCost>=0.0)  **THEN**

**SET** this.dblUnitCost = dblUnitCost;

**Return** Void

**End** //end of method setDblUnitCost

**public double getUnits()**

**Begin**

**Return** dblUnits;//returns units used

**Begin** //end of method getUnits

**public void setDblUnits(double dblUnits)**

**Begin**

**IF** (dblUnits>0.0) **THEN**

**SET** this.dblUnits = dblUnits;

**Return** Void

**End**//end of method setDblUnits

**public void updateUnitCost(double dblNewUnitCost)**

**Begin**

**IF** (dblNewUnitCost>0.0) **THEN**

**SET** this.dblUnitCost = dblNewUnitCost;

**Return** Void

**End** //end of method updateUnitCost

**END //end of class object GasAccount**