**Flow Chart For Class GasAccount**

Constructor A (GasAccount - overloaded)

New Customer (Default)

GasAccount Constructor (Default)

Begin

Set intAccRefNo to - 1

Set strName to – “Unknown”

Set strAddress to – “Unknown”

End

Start

intAccRefNo = -1

End

strAddress = “Unknown”

strName = “Unknown”

Constructor B – GasAccount

this.intAccRefNo = -1

Start

this.unitsUsed = “-1”

END

unitsUsed=this.unitsUsed

dblNewUnits>0

this.address = “unknown”

strAddress = this.strAddress

strName = this.strName

this.strName=”unknown”

strName = null

intAccRefNo =this.intAccRefNo

intAccRefNo>0

**F**

**T**

**F**

**T**

strAddress = null

**F**

**T**

**F**

**T**

**Flow Chart for getName**

Start

Return strName

End

**Flow chart for setStrName**

Start

strName= “null”

**F**

strName= “unknown”

**T**

strName=this.strName

End

**Flow Chart setIntAccRefNo**

Start

**F**

intAccRefNo= “-1”

intAccRefNo >0

**T**

intAccRefNo=

intAccRefNo=this.intAccRefNo

END

**Flow Chart for getAccountRefNo**

End

Return intAccRefNo

Start

**Flow Chart for getAddress**

Start

Return strAddress

End

**Flow Chart for setAddress**

Start

**F**

strAddress= “unknown”

strAddress= “null”

**T**

strAddress=this.strAddress

End

**Flow Chart getBalance**

Start

Return dblBalance

End

**Flow Chart setBalance**

Start

depositAmount= “-1”

**F**

depositAmount >0

**T**

T

dblBalance=

dblBalance – depositAmount

Amount

END

**Flow Chart for get units**

Start

Return dblUnits

END

**Flow Chart for setUnits**

Start

**T**

**F**

dblUnits= “-1”

End

dblUnits>0

dblUnitsUsed= dblUnitsUsed+dblnewUnits

**Flow Chart for getUnitCost**

Start

Return dblUnitCost

End

**Flow Chart for setUnitCost**

Start

**F**

newUnitCost>0

newUnitCost = “-1”

**T**

unitCost=newUnitCost

End

Flow Chart for recordUnits

Start

**F**

dblUnitsUsed<0.0

Return

String Error

**T**

dblCalBal=dblUnitsUsed \* dblUnitCost

dblBalance = dblBalance +dblCalBal

Return String

“Transaction Successful”

Flow Chart for deposit

Start

**F**

End

dblBalance =

dblBalance - dblDepositAmount

dblDepositAmount = - 0.1

dblDepositAmount

>0.0

**T**

Flow Chart for updateUnitCost

**T**

**F**

End

dblNewUnitCost = this.dblNewUnitCost

dblNewUnitCost = - 0.1

Start

dblNewUnitCost>0.0