**Test For GasAccount**

**Ref#1:ConstructionTest**

Test 1 - GasAccount Constructor Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Gas Account object constructed.

**Ref#2:Overloaded Constructor Test**

Test 2 - GasAccount Overloaded Constructor Test

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Gas Account object constructed.

**Ref#3: Getter For Account Reference No**

Test 3 - GasAccount Get Account Reference No Test

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Account Reference No: 181818

**Ref#4: Setter Test For Account Reference No**

Test 4 - GasAccount Set New Account Reference No Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Value of Account Number Before: 100

New Account Reference To Be Entered: 102543

New Account Reference No: 102543

**Ref#5:Setter Test For Account Reference No (WITH NEGATIVE VALUE)**

Test 5 - GasAccount Create New Account Ref To Be Set WITH NEGATIVE VALUE Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Value of Account Number Before: 102543

Negative Account Reference Entered: -102543

Account Reference No: 102543

**Ref#6: GasAccount Create New Account Ref To Be Set WITH ZERO VALUE Test**

Test 6 - GasAccount Create New Account Reference WITH ZERO VALUE Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Value of Account Number Before: 102543

Value To Be Entered Into Account: 0

New Account Reference No: 102543

**Ref#7:Getter Test For Customer Name**

Test 7 - GasAccount Get Customer Name Test

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Customer Name: Pauline Hanna

**Ref#8:Setter Test For Customer Name**

Test 8 - GasAccount Set Customer Name Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Original Customer Name: Pauline Hanna

Customer New Name: Pauline Conway

**Ref#9:Setter Test For Customer Name (NULL VALUE)**

Test 9 - GasAccount Set Customer Name With NULL Value Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Original Customer Name: Pauline Conway

Customer New Name:

**Ref#10:Getter Test For Customer Address**

Test 10 - GasAccount Get Customer Address Test

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Customer Address: 11 Beechcroft Manor

**Ref#11:Setter Test For Customer Address**

Test 11 - GasAccount Set Customer Address Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Original Customer Address: 11 Beechcroft Manor

Customer New Address: 44 Eastwick Road

**Ref#12:Setter Test For Customer Address (NULL VALUE)**

Test 12 - GasAccount Set Customer Address Test - Null Value

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Original Customer Address: 44 Eastwick Road

Customer New Address:

**Ref#13:Getter Test For Customer Balance**

Test 13 - GasAccount Get Customer Balance Test

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Customer Balance £ 94.64

**Ref#14:Setter Test For Customer Balance (VALID)**

Test 14 - GasAccount Set Balance VALID Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Balance Before £ 94.64

New Balance£ 149.0

**Ref#15:Setter Test For Customer Balance (ZERO)**

Test 15 - GasAccount Set Balance WITH ZERO VALUE Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Balance Before £ 149.0

New Balance£149.0

**Ref#16:Record No Of Units (Balance Increase) – Valid Input Test**

Test 16 - GasAccount recordUnits - Valid Input - Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Current Balance £ 149.0

Units Added 1768.0

New Balance £ 184.36

Transaction Successful

**Ref#17:Record No Of Units (Balance Increase) – Negative Input Test**

Test 17 - GasAccount recordUnits - NEGATIVE VALUE - Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Current Balance £ 184.36

Units Added -1768.0

New Balance £ 184.36

Error - Must Be Positive Value

**Ref#18:Record No Of Units (Balance Increase) – Zero Input Test**

Test 18 - GasAccount recordUnits - ZERO VALUE - Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Current Balance £ 184.36

Units Added 0.0

New Balance £ 184.36

Error - Must Be Positive Value

**Ref#19:Getter Test For Cost Per Unit**

Test 19 - GasAccount Get Cost of each Unit Test

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Unit Cost: 0.02

**Ref#20:Update Individual Unit Cost (VALID)**

Test 20 - GasAccount Update The Individual Unit Cost VALID Test

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Existing Unit Cost£ 0.02

Change Cost To£ 0.35

New Cost of Each Unit Confirmed: 0.35

**Ref#21:Update Individual Unit Cost (NEGATIVE)**

Test 21 - GasAccount Update The Individual Unit Cost with a negative value Test

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Existing Unit Cost: 0.35

Change Cost To: -0.35

New Cost of Each Unit: 0.35

**Ref#22:Update Individual Unit Cost (ZERO)**

Test 22 - GasAccount Update the Individual Unit Cost with a ZERO value Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Existing Unit Cost: 0.35

Change Cost To: 0.0

New Cost of Each Unit: 0.35

**Ref#23:Deposit Valid Amount Test**

Test 23 - GasAccount Deposit Valid Amount Test

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Original Balance £ 184.36

Amount to deposit £ 20.0

Remaining Balance £ 164.36

**Ref#24:Deposit NEGATIVE Amount Test**

Test 24 - GasAccount Deposit An Negative Amount Test

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Balance £ 164.36

Amount to Deposit £ -10.0

Remaining Balance £ 164.36

**Ref#25:Deposit ZERO Amount Test**

Test 25 - GasAccount Deposit An Zero Amount Test

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Balance £ 164.36

Amount to Deposit £ 0.0

Remaining Balance £ 164.36

**Ref#26:Getter Test For No Of Units Used**

Test 26 - GasAccount Get No of Units Used Test

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Units Used: 4732.0

**Ref#27:Setter Test For No Of Units Used - VALID**

Test 27 - GasAccount Set No Of Units Test

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Units Before: 4732.0

New Units: 1836.0

**Ref#28:Setter Test For No Of Units Used - ZERO**

Test 28 - GasAccount Set No Of Units WITH ZERO VALUE Test

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Units Before: 1836.0

New Units: 1836.0

**Ref#29:Setter Test For No Of Units Used - NEGATIVE**

Test 29 - GasAccount Set No Of Units WITH NEGATIVE VALUE Test

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Units Before: 1836.0

New Units: 1836.0