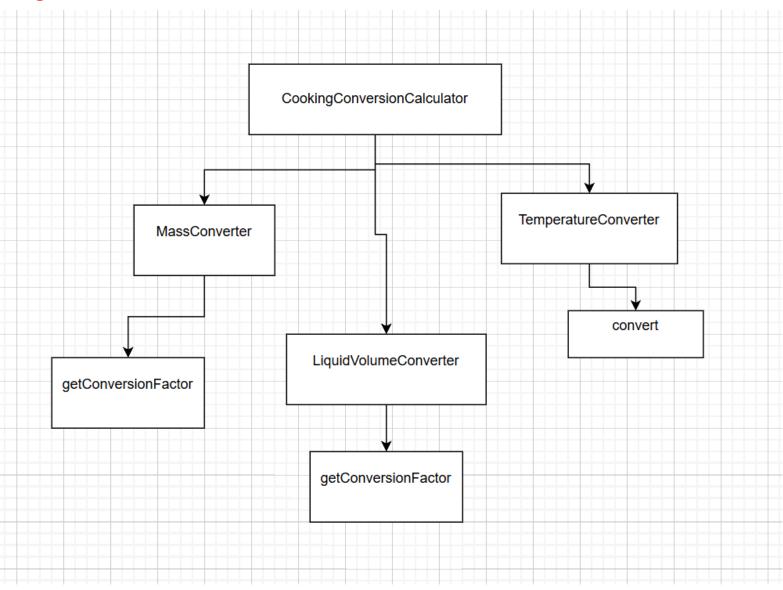
## **Program Structure**



## **Top-down Integration**

Unit under	List of	Input	result	Stub's	Expect	Actual	Pass/Fail/
test	Stubs/Drivers			return	ed	results	No run
				value	results		
TD-TEMP-1	Stub	choice=temp	999.99	999.99	999.99	-0.0	Fail
CookingConv	TemperatureC	erature,					
ersionCalcula	onverter.conve	value=10,					
tor.convert	rt	fromUnit					
		=fahrenheit,					
		toUnit=celsiu					
		s					
TD-MASS-1	Stub	choice=mas	222.22	222.22	222.22	125.0	Fail
CookingConv	MassConverter	s, value=1,					
ersionCalcula	.convert	fromUnit=cu					
tor.convert		p,					
		toUnit=gram					
TD-LIQ-1	Stub	choice=liquid	123.45	123.45	123.45	1.057	Fail
CookingConv	LiquidVolumeC	, value=1,	6	6	6		
ersionCalcula	onverter.conve	fromUnit					
tor.convert	rt	=liter,					
		toUnit=quart					

TD-UNKW-1	-	choice=pres	-	-	0.0	0.0	Pass
CookingConv		sure,					
ersionCalcula		value=10,					
tor.convert		fromUnit					
		=pascal,					
		toUnit=bar					

## **Bottom-up Integration**

Unit under	List of	Input	result	Stub's	Expected	Actual	Pass/Fail/
test	Stubs/Driv			return	results	results	No run
	ers			value			
BU-MASS	Drivers	value=1,	-	-	125	125	Pass
-1	:JUnit test	fromUnit=cup					
MassConv		, toUnit=gram					
erter.conv							
ert							
BU-MASS	Drivers	value=2,	-	-	16	16	Pass
-2	:JUnit test	fromUnit					

MassConv erter.conv ert		=tablespoon, toUnit=gram					
BU-MASS -3 MassConv erter.conv ert	Drivers :JUnit test	value=4, fromUnit=oz, toUnit=gram	-	-	113.396	113.396	Pass
BU-MASS -4 MassConv erter.conv ert	Drivers :JUnit test	value=5, fromUnit =pound, toUnit =kilogram	-	-	2.27	2.27	Pass
BU-MASS -5 MassConv erter.conv ert	Drivers :JUnit test	value=1000, fromUnit =gram, toUnit=oz	-	-	35.0	35.0	Pass

BU-MASS -6 MassConv erter.conv ert	Drivers :JUnit test	value=2, fromUnit =kilogram, toUnit=pound	-	-	4.41	4.41	Pass
BU-LIQ-1 LiquidVolu meConver ter.convert	Drivers :JUnit test	value=1, fromUnit=cup , toUnit=ml	-	-	250	250	Pass
BU-LIQ-2 LiquidVolu meConver ter.convert	Drivers :JUnit test	value=1, fromUnit=cup , toUnit=oz	-	-	8	8	Pass
BU-LIQ-3 LiquidVolu meConver ter.convert	Drivers :JUnit test	value=2, fromUnit =tablespoon, toUnit=ml	-	-	30	2	Fail
BU-LIQ-4	Drivers :JUnit test	value=1, fromUnit=oz, toUnit=ml	-	-	29.574	29.574	Pass

LiquidVolu							
meConver							
ter.convert							
BU-LIQ-5	Drivers	value=1,	-	-	473.176	473.176	Pass
LiquidVolu	:JUnit test	fromUnit=pint					
meConver		, toUnit=ml					
ter.convert							
BU-LIQ-6	Drivers	value=1,	-	-	0.946	0.946	Pass
LiquidVolu	:JUnit test	fromUnit					
meConver		=quart,					
ter.convert		toUnit=liter					
BU-LIQ-7	Drivers	value=100,	-	-	3.4	3.4	Pass
LiquidVolu	:JUnit test	fromUnit=ml,					
meConver		toUnit=oz					
ter.convert							
BU-LIQ-8	Drivers	value=1,	-	-	2.113	2.113	Pass
LiquidVolu	:JUnit test	fromUnit					
meConver		=liter,					
ter.convert		toUnit=pint					
BU-LIQ-9	Drivers	value=1,	-	-	1.057	1.057	Pass
	:JUnit test	fromUnit					

LiquidVolu		=liter,					
meConver		toUnit=quart					
ter.convert							
BU-LIQ-10	Drivers	value=1,	-	-	0.264	0.264	Pass
LiquidVolu	:JUnit test	fromUnit					
meConver		=liter,					
ter.convert		toUnit=gallon					
BU-TEMP	Drivers	value=32,	-	-	0	0	Pass
-1	:JUnit test	fromUnit					
Temperatu		=fahrenheit,					
reConvert		toUnit=celsiu					
er.convert		S					
BU-TEMP	Drivers	value=212,	-	-	100	0	Fail
-2	:JUnit test	fromUnit					
Temperatu		=fahrenheit,					
reConvert		toUnit=celsiu					
er.convert		S					
BU-TEMP	Drivers	value=0,	-	-	32	0	Fail
-3	:JUnit test	fromUnit					
Temperatu		=celsius,					
reConvert		toUnit					
er.convert		=fahrenheit					

BU-TEMP	Drivers	value=100,	-	-	212	0	Fail
-4	:JUnit test	fromUnit					
Temperatu		=celsius,					
reConvert		toUnit					
er.convert		=fahrenheit					
BU-TEMP	Drivers	value=-40,	-	-	-40	0	Fail
-5	:JUnit test	fromUnit					
Temperatu		=fahrenheit,					
reConvert		toUnit					
er.convert		=celsius					
BU-CALC-	Drivers	choice=mass	-	-	4.41	4.41	Pass
1	:JUnit test	, value=2,					
CookingC		fromUnit					
onversion		=kilogram,					
Calculator.		toUnit=pound					
convert							
BU-CALC-	Drivers	choice=liquid,	-	-	0.946	0.946	Pass
2	:JUnit test	value=1,					
CookingC		fromUnit					
onversion		=quart,					
Calculator.		toUnit=liter					
convert							

BU-CALC-	Drivers	Choice	-	-	0	0	Pass
3	:JUnit test	=temperature					
CookingC		, value=32,					
onversion		fromUnit					
Calculator.		=fahrenheit,					
convert		toUnit=celsiu					
		s					
BU-CALC-	Drivers	Choice	-	-	100	0	Fail
4	:JUnit test	=temperature					
CookingC		, value=212,					
onversion		fromUnit					
Calculator.		=fahrenheit,					
convert		toUnit=celsiu					
		s					
BU-CALC-	Drivers	Choice	-	-	0.0	0.0	Pass
5	:JUnit test	=pressure,					
CookingC		value=10,					
onversion		fromUnit					
Calculator.		=pascal,					
convert		toUnit=bar					