Test cases and outputs

Unit testing:

Test id	Description	Expected input	Expected output	Actual output
HL_01	Selecting a number	Clicking on the required key	Taking the selected key & storing it	-
HL_02	Display the number	Click on the required key & store it	Display the selected number	-
HL_03	Selecting a sign/output key	Clicking on the required key	Taking the selected key & storing it	-
HL_04	Clear the input	Select any key & cancel it (this value shouldn't be stored)	Clear the selection	-
HL_05	Calculate Temperature (C->F)	32 degree Celsius	It should display 89.6	-
HL_06	Calculate distance (m->km)	2000 meters	It should display 2 km	-
HL_07	Calculate length (m->cm)	90 meters	It should display 9000 cm	--
HL_08	Calculate weight (kg->pounds)	60kg	It should display 132.27 pounds	-
HL_09	Your weight is normal	43kg+153cm	It should display 19.1	-
HL_10	You Are Overweight	65kg+157cm	It should display 26.4	-
HL_11	You are Obese	75kg+157cm	It should display 30.4	-
HL_12	You are Extremely Obese	85kg+155cm	It should display 35.4	-

HL_13	You are underweight	45kg+145cm	It should display 21.4	-

Integration testing:

Test id	Description	Expected input	Expected output	Actual output
T1	Display	Give inputs to display	Display in default calculator order	-
T2	Map keys	Select the required keys	Mapping the keys to unique values	-
T3	Store the numbers/signs	Select the key	Take the selected key & store it in any stl concept & do the necessary conversions	-
T4	Operations	Give the operands & operator	Perform the given algorithms & display the output	-
T5	If not selected Any option	Should select at least one	It should display 0.00	-