

High level test plan

ID	DESCRIPTION	Expected output	Actual output
HR01	Performing arithmetic operations	Success	Success
HR02	Performing trigonometric operations	Success	Success
HR03	Performing logarithmic operations	Success	Success
HR04	Performing exponential operations	Success	Success
HR05	Finding the factorial of a number	Success	Success
HR06	Performing other frequent operations	Success	Success

Low level test plan

TEST ID	HL_ID	DESCRIPTION	USER INPUT	EXP. OUTPUT	ACTUAL OUTPUT
LR_01	HR01	Performing the addition operation	[50,10]	60	60
LR_02	HR01	Performing the addition operation	[4.2,2.1]	6.3	6.3
LR_03	HR01	Performing the addition operation	[55,-5]	50	50
LR_04	HR01	Performing the addition operation	[12.5,-2.5]	10.0	10.0
LR_05	HR01	Performing the subtraction operation	[50,10]	40	40
LR_06	HR01	Performing the subtraction operation	[4.2,2.1]	2.1	2.1
LR_07	HR01	Performing the subtraction operation	[55,-5]	60	60
LR_08	HR01	Performing the subtraction operation	[12.5,-2.5]	15	15
LR_09	HR01	Performing the multiplication operation	[50,10]	500	500
LR_10	HR01	Performing the multiplication operation	[4.2,2.1]	8.82	8.82
LR_11	HR01	Performing the multiplication operation	[55,-5]	-275	-275
LR_12	HR01	Performing the multiplication operation	[12.5,-2.5]	-31.25	-31.25
LR_13	HR01	Performing the division operation	[50,10]	5	5
LR_14	HR01	Performing the division operation	[4.2,2.1]	2.0	2.0
LR_15	HR01	Performing the division operation	[55,-5]	-11	-11
LR_16	HR01	Performing the division operation	[12.5,-2.5]	-5.0	-5.0
LR_17	HR02	Performing sin operation	30	0.5	0.5
LR_18	HR02	Performing sin operation	-60	- 0.87	- 0.87
LR_19	HR02	Performing sin operation	90	1	1
LR_20	HR02	Performing cos operation	30	0.87	0.87
LR_21	HR02	Performing cos operation	-60	0.5	0.5
LR_22	HR02	Performing cos operation	90	0	0
LR_23	HR02	Performing tan operation	30	0.58	0.58
LR_24	HR02	Performing tan operation	-60	-1.73	-1.73
LR_25	HR02	Performing tan operation	90	UNDEFINED	UNDEFINED
LR_26	HR02	Performing cot operation	30	1.73	1.73
LR_27	HR02	Performing cot operation	45	1	1
LR_28	HR02	Performing cot operation	0	UNDEFINED	UNDEFINED
LR_29	HR02	Performing cosec operation	30	2	2
LR_30	HR02	Performing cosec operation	0	UNDEFINED	UNDEFINED
LR_31	HR02	Performing cosec operation	45	1.414	1.414
LR_32	HR02	Performing sec operation	90	UNDEFINED	UNDEFINED
LR_33	HR02	Performing sec operation	30	1.15	1.15
LR_34	HR02	Performing sec operation	0	1	1
LR_35	HR03	Performing natural log operation	10	2.30	2.30
LR_36	HR03	Performing natural log operation	-5	UNDEFINED	UNDEFINED
LR_37	HR03	Performing logarithmic(base 10) operation	2	0.3	0.3

LR_38	HR03	Performing logarithmic(base 10) operation	-2	UNDEFINED	UNDEFINED
LR_39	HR04	Performing exponential operation	2	7.39	7.39
LR_40	HR05	Performing factorial operation	0	1	1
LR_41	HR05	Performing factorial operation	4	24	24
LR_40	HR06	Performing square operation	2	4	4
LR_41	HR06	Performing Xth power of 10 operation	2.3	199.53	199.53
LR_42	HR06	Performing Nth square of operation	[3,4]	81	81
LR_43	HR06	Performing square root operation	16	4.0	4.0
LR_44	HR06	Performing square root operation	-25	UNDEFINED	UNDEFINED