	Test Cases				
Test #	**Instruction**	**Code**	**Expected Result**	**Test Condition**	**Success?**
	MOV AL r0,#1	4001			
	ADD AL r1,r0	0110		Register	
1	SYS AL	9800	reg1 = 1	dependence	yes
	MOV AL r0,#4	4004			
	ADD AL r0,r1	0101		Register	
2	SYS AL	9800	reg0 = 4	dependence	yes
	MUL S r0,#0	4a00			
	MOV EQ r1,#1	4411		Conditional and	
	ADD AL r1,r0	0110		register	
3	SYS AL	9800	reg1 = 1	dependencies	yes
	MOV S r0,#0	4200			
	MOV NE r1,#2	4612			
	MOV AL r1,#4	4014		Conditional and	
	MOV AL r0,r1	4101		register	
4	SYS AL	9800	reg0 = 4	dependencies	yes
	MOV AL r0,#2	4002			
	MOV AL r1,#5	4015			
	MOV S r2,#0	4220		Conditional	
	MUL EQ r0,r1	4d01		dependencies	
	MOV AL r2,r0	4120		and	
5	SYS AL	9800	reg2 = 10	multiplication	yes
	MOV AL r0,#5	4005			
	MOV AL r1,#1	4011			
	STR AL r0,[r1]	7901			
	LDR AL r2,[r1]	3921		Memory	
6	SYS AL	9800	reg2 = 5	dependence	yes
	MOV AL r0,#6	4006			
	MOV AL r1,#1	4011			
	MOV S r2,#0	4220			
	STR EQ r0,[r1]	7d01		Conditional and	
	LDR AL r3,[r1]	3931		memory	
7	SYS AL	9800	reg3 = 6	dependencies	yes
	ADD AL r0, #6	0006			
	ADD AL r1, #1	0011			
	MOV AL r15, #6	40f6			
	SYS AL	9800			
	SYS AL	9800			
	SYS AL	9800			
	ADD AL r1, r0	0110			
	ADD AL r0, #5	0005			
	ADD AL r0, #6	0006			
	ADD AL r0, #5	0005	reg0 = 22		
8	ADD AL r1, r0	0110	reg1 = 29	Jumps	yes

		4037			
	MOV AL r3, #7	4001			
	MOV AL r0, #1	8b30			
	SUB S r3, r0	44f6			
	MOV EQ r15, #6	0611			
	ADD NE r1, #1	40f1	reg0 = 1		
	MOV AL r15, #1	c002	reg1 = 6		
	MOV AL r2, #42	402a	reg2 = 42		
9	SYS AL	9800	reg3 = 0	Jumps with loop	yes
	PRE AL #1	c001			
	PRE AL #2	c002			
	ADD AL r0, #1	0001		Two PRE's in a	
10	SYS AL	9800	reg0=33	row	yes
	ITOF AL r0,#6	3006			
	ITOF AL r1,#0	3010	reg0 = 4'x40c0		
	ITOF AL r2,#-3	302d	reg1 = 4'x0		
	ITOF AL r3,#-7	3039	reg2 = 4'xc040	Int to float	
11	SYS AL	9800	reg3 = 4'c0e0	conversion	yes
		c002			
		300a		Int to float	
	ITOF AL r0,#42	cff8		conversion with	
	ITOF AL r1,#-117	301b	reg0 = 0x4228	'long' constants	
12	SYS AL	9800	reg1 = 0xc2ea	(C>7 or C<-8)	yes
	ITOF AL r0,#6	3006			
	MOV AL r1, #0	4010			
	FTOI AL r2, r0	2920	reg0 = 4'x40c0	Float to int	
13	SYS AL	9800	reg2 = 4'x0006	conversion	yes
		cff8		Float to int	
	ITOF AL r0,#-117	300b		conversion with	
	MOV AL r1, #0	4010		negative	
	FTOI AL r2, r0	2920	reg0 = 4'xc2ea	constants and	
14	SYS AL	9800	reg2 = 4'xff8b	'long' constants	yes
	ITOF AL r0,#5	3005			
	ITOF AL r1, #6	3016			
	MULF AL r0, r1	5101	reg0 = 16'b0100000111110000		
	FTOI AL r2, r0	2920	reg1 = 16'b0100000011000000	Floating point	
15	SYS AL	9800	reg2 = 16'b0000000000011110	multiplication	yes
		cfff			
	ITOF AL r0,#-10	3006		Floating point	
	ITOF AL r1,#7	3017		multiplication	
	MULF AL r0, r1	5101	reg0 = 16'b1100001010001100	between positive	
	FTOI AL r2, r0	2920	reg1 = 16'b0100000011100000	and negative	
16	SYS AL	9800	reg2 = 16'b1111111110111010	value	yes

		cffe			
		300b			
	ITOF AL r0,#-21	cffe			
	ITOF AL r1,#-20	301c		Floating point	
	MULF AL r0, r1	5101	reg0 = 16’b0100001111010010	multiplication	
	FTOI AL r2, r0	2920	reg1 = 16’b1100000110100000	between 'long'	
17	SYS AL	9800	reg2 = 16’b0000000110100100	negative values	yes
	ITOF AL r0,#5	3005			no; lack
	RECF AL r1,r0	6910	reg0 = 16’b0100000010100000	Floating point	of
18	SYS AL	9800	reg1 = 16’b0011101101001100	reciprocal	precision
		cffc		Float to int	
	ITOF AL r1, #-50	301e		conversion for a	
	FTOI AL r0, r1	2901	reg0 = 16'b1111111111001110	'long' negative	
19	SYS AL	9800	reg1 = 16'b1100001001001000	value	yes
		c012			
		300c			
	ITOF AL r0,#300	c01f			
	ITOF AL r1,#500	3014		Floating point	
	ADDF AL r0,r1	0901		addition on 'long'	
20	SYS AL	9800	reg0 = 4'x4448	positive values	yes
		cfff			
		3003			
	ITOF AL r0,#-13	c003		Floating point	
	ITOF AL r1,#55	3017		addition between	
	ADDF AL r0,r1	0901		a positive and a	
21	SYS AL	9800	reg0 = 4'x4228	negative	yes
	ITOF AL r0,#-1	300f			
	ITOF AL r1,#2	3012			
	ITOF AL r2,#-3	302d			
	ITOF AL r3,#4	3034			
	ADDF AL r0,r1	0901			
	ADDF AL r0,r2	0902			
	ADDF AL r0,r3	0903			
	FTOI AL r3,r0	2930		Floating point	
22	SYS AL	9800	reg3 = 2	addition	yes
	ITOF AL r0,#1	3001			
	ITOF AL r1,#-2	301e			
	SUBF AL r0,r1	9101			
	FTOI AL r3,r0	2930		Floating point	
23	SYS AL	9800	reg3=3	subtraction	yes

		300b			
		3014			
		302d			
		3032			
	ITOF AL r0,#-5	0901			
	ITOF AL r1,#4 ITOF	5102			
	AL r2,#-3 ITOF AL	9303			
	r3,#2 ADDF AL	e001			
	r0,r1 MULF AL	4431			
	r0,r2 SUBF S r0,r3	3630			
	MOV EQ r3, #17	5323			
	ITOF NE r3, #0	2d30		Float instructions	
	MULF S r2, r3 FTOI	e002	reg0 = 42	with conditional	
	EQ r3, r0 ADD EQ	0409	reg2 = 0	dependenceies	
24	r0,#41 SYS AL	9800	reg3 = 1	and PRE's	yes