



COMPUTER ARCHITECTURE(2CS504) -

## FLOATING POINT MULTIPLIER USING PIPELINE



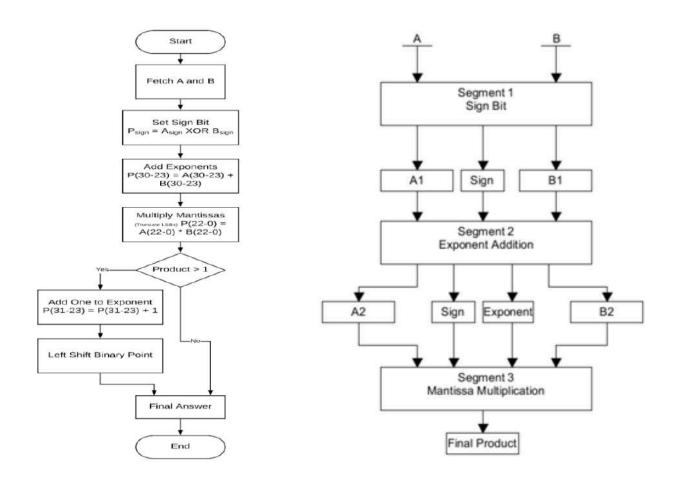
Course Coordinator: Prof. Shivani Desai Submitted To: Prof. Purnima Gandhi

Submitted By:

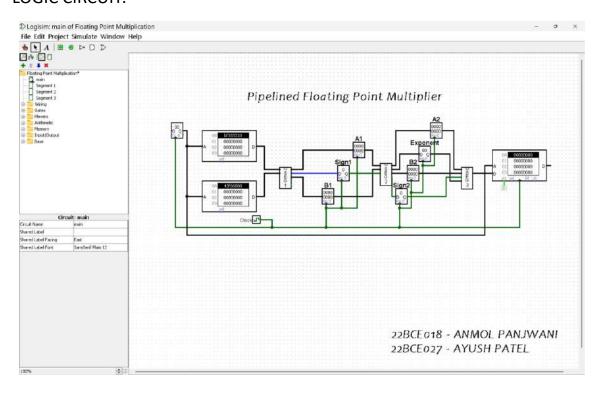
Anmol Panjwani (22BCE018)

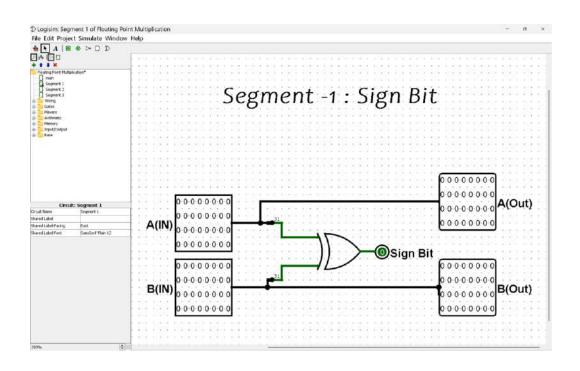
Ayush Patel (22BCE027)

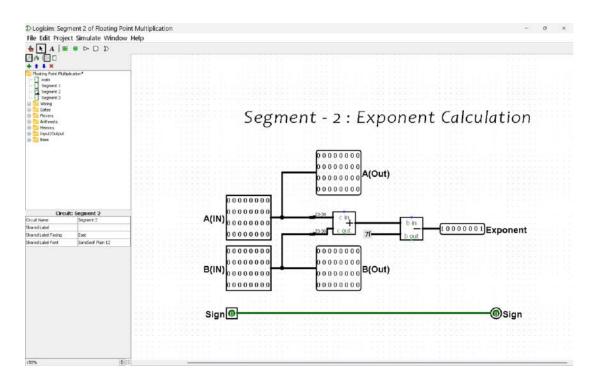
## ❖ FLOWCHART:

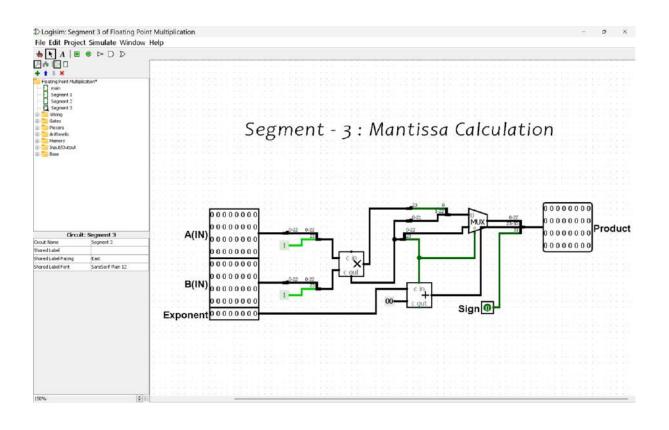


## **❖** LOGIC CIRCUIT:









## ❖ DRY-RUN CALCULATION:

	PAGE NO:
	$A = (-0.7)_{10}$
	= (0.10110)2
100	$= (1.0110 \times 2^{-1})_2$
	exponent $\rightarrow (-1) + 127$ = $(126)_{10}$
	= (126)10
	= (01111110)2
0,44	mantissa -> (0110000000000000000000000000000000000
	sign lit -> 1
	final supresentation -
	(10111111001100000000000000000000000000
	= (bf333333) <sub>16</sub>
_	$B = (492.75)_{10}$
	= (111101100.11)2
	= (1.1110110011 × 28)
	1- 8 + (1-) - 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1
1111653 -11353 Parintal	8 =

