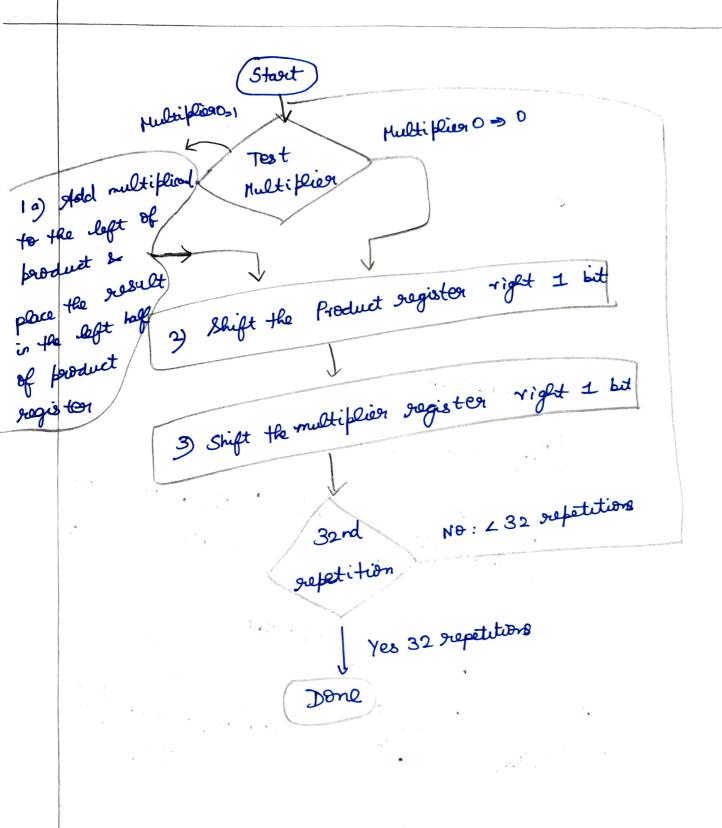
## CSI 1004 Computer Organization and Architecture

Name: Prasharth - 5

PER : 19MIDOD 20

Design a hardware & algorithm
for multiplying 32 bit x 32 bit



Lade replacement algorithm. 2) MRO ( Nest recently used) FIFO LRU (First in-first out) ( toast society used) Main Membery (ache Hendry (in blacks) (in lines) Poplare that book in the set that has been in the cache longest Paplace the blocks in the set that has been in the a)cache longest item with no reference to it. 6) poplace the blocks in the set that has experienced the forest soferinas. 9 Any other mechanism cannot be adopted

Always Happing las some disadvantages. So replacement algorithms are more efficient than Happing.

There is a light conflict miss, it is to supplace a reache membery black even other blacks in the zadle membery were present as entity was to grave the comparison can be made in case of cresociative mapping. To avoid the conflict, any block of main members can be present as placed anywhere in the cacle memory.

But these conflicts are not observed in page suplacement algorithm.

Since RAMIS divided into pages and cache divided into

Since RAMIS divided into pages and more efficient.

Prames, Replacement algorithm are more efficient.

Booth Hulliplication for 3 numbers BR >> Multiplicard QR => Multiplier Ans =) Convert to decimal and then to binary and store to AC AC > 0 AC E Ans Q = = 3rd number (AR) Qnti 60 Sc En SC En 0 1 an Qn+1 (0 AC FAC+BR AC CAC + BR +1 D 0 shift sught (ACR QR) sc = sc-1 Any 3rd number 5C Ans 1 => Ac, Qn AR = 3rd number Ans =) AC, Qn