Let the 2 bit numbers be Kiai and dibi Carry input be ci-1 We can cascade 2 one bit FA to make 2 bit FA 1 bit 1 bit F.A Carry output cool cil Sum output 15:15i

2 bit Full Adder Touth Table ai 5i Ci bi Ci-1 Ci-1 0 For Si aibi Si= aibici-1 00 +aibici-1 + aibici-1 10 + ai bili-1

For ci

$$c_{i-1}$$
  $000011011$ 
 $00011$ 

