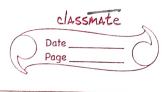
LECTURE 8 - BASIC ADDITION PROGRAM + MEMORY MAP -LPC 2148 : Exefer to page 2 foir diagrammatic representation] O DATA - On- Chip Static RAM (memory)

O PROGRAM - On- Chip Non- Volatile memory - Flash ROM (coden) 1-3003-11-3



4.098 OXFFFF FFFF AHB PERIPHERALS 3.15 48 Dr F000 0000 VPB PERIPHERALS 3.5 48 0x 1000 0000 8.048 RISTRUED ADDRESS SPACE OxC000 0000 2000 0×8000 0000 BOOT BLOCK (12 KB REMAPPED FROM ON-CHIP FLASH MEMORY) OXTEFF DODO OX 1FFF LFFF RESERVED ADDRESS SPACE 0x 1FD0 2000 0x 1FD0 1FFF OX TFDO 8 XB ON- INIP USB DOMB RAM (LIPE 2146/2148) OXTFOO 0000 OXTFOF FFFF RESERVED ADDRESS SCALL 0x 4000 2000 0x 4000 1555 $\mathscr{E}_{\!\scriptscriptstyle \mathcal{S}}$ 32 LB ON- OHIP STATIC DAM (18C2146/2148) 0x 4000 4000 0x 4000 3FFF 16 KB ON-CHIP STATIC RAM (LPCS142/2144) 0x 4000 9000 0x4000 1FFF 8 KB ON-CHIP STATIC RAM (LPC 2141) 1.0 9B 0x4000 0000 OX SFFF FUFF RESERVED ADDRESS SPACE 0x0008 2000 0x0001 FFFF Z TOTAL OF 512 KB ON-CHIP NON-VOLATILE MEMORY reg . (LPC 2148) 0x 0004 0000 0x0003 FFFF NOTAL OF 156 KB ON-CHIP MON-VOLATILE MEMORY 300 S (LPC2146) 0x0002 0000 0x0001 FFFF Ë TOTAL OF 128 KB ON-CHIP NON-VOLATIVE MEMORY E (LPC 2194) Ox 0001 0000 ONDOOD FFFF E 3 TOTAL OF 64KB ON-CHIP NON-VOLATILE MEMBER E (LPC 2142) 0x0000 8000 0x0000 TFFF TOTAL OF 32 KB ON-CHIP NON-VOLATILE MEMORY 0.098 (180 2141) 0x0000 0000

earnel shifter ASSEMBLY LANGUAGE PROGRAM TO ADD TWO NUMBERS: result N Assembler Directive AREA ADDITION, CODE, READONLY Anithmetic logic unit DATA READWRITE SHATT - ENTRY mov RI, #1 mov R2, #2 32-bit of code ADD RO, RI, RY program m/m STOP B STOP + Label 1 (n 2m) mov RI, #1 Pisard - END 0x00000000 mov R2, #2 0×00000004 0x00000008 ADD RO, RI, RY B 0x00000000 Short Jump 0x0000000C 0200000010