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Homework – Week 4

1)

D6	LDAB	Direct
22	BHI	Relative
73	DEC	Extended
20	BRA	Relative
A4	ANDA	Index
18 16	SBA	Inherent
27	BEQ	Relative
F9	ADCB	Extended
3F	SWI	Inherent

2)

B7 eb	EXG	Inherent
B7 **	Transfer Instructions	Inherent
F6	LDAB	Extended
18 03	MOVW	Immediate-Extended
A2	SBCA	Index
17	JSR	Direct
21	BRN	Relative
5A	STAA	Direct
A6	LDAA	Index
2E	BGT	Relative
04 B6	IBNE	Relative
F5	BITB	Extended

3) b, c, f, g

4)

AA	N	Z	V	C
$00	1	0	1	0
$00	0	1	0	0
$40	0	0	0	0
$C8	1	0	0	0
$90	1	0	0	1
$21	0	0	1	1
$F0	1	0	1	0

```
5)
ARRAY       EQU   $3900
            ORG   $3800
TEMP        DC.B  1
            ORG   $4000
            LDX   #$00
            LDY   #$001F
LOOP        LDAA  ARRAY, X
            STAA  TEMP
            LDAA  ARRAY, Y
            STAA  ARRAY, X
            LDAA  TEMP
            STAA  ARRAY, Y
            INX
            DEY
            CPX   #$0010
            BNE   LOOP
            BRA   *


6)
COUNT       EQU   $3900
ARRAY       EQU   $5000
            ORG   $4000
            LDAA  #$00
            STAA  COUNT
            LDX   #$02
            LDY   #$00
LOOP        LDD   ARRAY, Y
            IDIV
            INY
            INY
            CMPB  #$00
            BEQ   LOOP
            LDAA  COUNT
            INCA
            STAA  COUNT
            CPY   #$0066
            BNE   LOOP
            BRA   *
```

```
7)
TABLE      EQU    $C000
RESULT     EQU    $3900
           ORG    $4000
           LDX    #$0000
           LDY    #$0000
LOOP       LDAB   TABLE, X
           ABY
           INX
           CPX    #N
           BNE    LOOP
           TFR    Y, D
           IDIV
           STD    RESULT
           BRA    *


8)
PORTT      EQU    $240
DDRT       EQU    $242
           ORG    $4000
           STAA   #$F0
           LDAA   DDRT
LOOP       LDAA   PORTT
           ROLA
           ROLA
           ROLA
           ROLA
           STAA   PORTT
           BRA    LOOP
```

9)

```
PORTT       EQU         $240
DDRT        EQU         $242
PORTAN      EQU         $270
DDRAN       EQU         $272
TABLE       EQU         $5000
            ORG          $4000
            LDAA        #$FF
            STAA        DDRT
            STAA        DDRAN
            LDY         #$00
LOOP        LDD         TABLE, Y
            STAA        PORTT
            STAB        PORTAN
            JSR         DELAY
            CPY         #$14
            BNE         LOOP
            LDY         #$00
            BRA         LOOP
DELAY       PSHA
            PSHY
            LDY         #4
            MOVB        #$90,$46
            MOVB        #$06,$4D
            MOVB        #$01,$40
            LDD         $44
AGAIN       ADDD        #37500
            STD         $50
WAIT        BRCLR       $4E,$01,WAIT
            LDD         $50
            DBNE        Y,AGAIN
            PULY
            PULA
            RTS
```