```
1)
a) 8->1000
             A->1010 9->1001
1000 1010 1001
b) E->1110
              F->1111
                         3->0011
1110 1111 0011
c) 0001->2 1110->E 0001->2
2E2
d) 1111->F 1110->E 1101->D 1011->B
FEDB
2)
43->C 6F->o 6D->m 70->p 75->u 74->t 65->e 72->r
Mesaj=Computer
3)
a) 5->00101 1->00001 00001'in two's complement=11111
00101+11111=100100 (owerflow)
b) 5->00101
             11->01011 01011'in two's complement=10101
00101+10101=11010 (no owerflow)
4)
a) 01001011 AND 10101011=00001011
b) 01001011 OR 10101011=11101011
c) 01001011 XOR 10101011=11100000
5)
a)7123-> would cause the result of OR ing the contents of registers 2 and 3 to be
placed in register 1
b)2BCD->would cause the value CD to be placed in
```

register B.

6)
load R1,[0xA0]
load R2,[0xA1]
load R3,0xF0
load R4,0x0F
and R1,R1,R3
and R2,R2,R4
addi R5,R1,R2
store R5,[0xA2]
halt