```
CS224 Section 3
                    QUIZ1
                                   17.05.2023
=> Stuant I 0: [22101734]
=> Lest digit of student IO:
a) Box 2 value is 4 => Assembly in med that: beg $40, $51, exit
                   instructions -
                                 exit:
                                       lw $t0,4($50)
S beg -> I-tyre => Orcode 15 1 Ft | Immediate)

5 5 5 16
                                      addi $10, $50, -5
                                      jal June
  4 opcode = 9 = 0001002
 6 12= $40: 8= 010002
                     Srt= $51 = 17 = 100012
                             1 1 1
                                        0 0 0
4 mmediate = 0
                    =) 0x11110000 tor beq
4 lw + I-tore
 4 opcode = 23 hex => 1000112
                         413 = $50 = 100002
                                   0 8 0 0 0
 4rt = $t0 = 010002
 5 immediate = 4 = 02002 = 1 sign-extend
                to 16-615 => 0x 8 E 08 0004 tor hu
Galdi + I -type
 409code = 8 = 0010002
                     4rs = 450 = 100002
                         2208 F F F B
 GH = $10 =010002
 4 mediate = -5 = 1011
                       =) DX22D8fffB for addit
            (2's complement)
           ysign-extend
4 jal - J-type => Tolove | addit
                              400code = 3 = 0000112
                   =) ANT 4 61ts
                                 0100001
 40ddr => 0040 0004
                    of orade, lost
                    2 bits of adds
                      13 dropped
                              =) 0x c0100001 terjal
```

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men move
uiz1: addi $5P, $5P, -24 # soving used variables
                                                                         22101734
       (422)0 post we
                                                                        Section 3
      SW $50, 4($51) # Storting and ness of array
      Sw $51, 8($51) # size of array
     Im $52, 12 ($5P) #1
     sw $53, 16 ($5P) # current army item
     Sw $54, 20($5P) #randomint return value
     add $50, $00, 50
    add $51, 591, 30
    addi 152, 10, 0
    addi $53, 10, 0
   alli 154, 20, 0
   while: beg $52, $51, done
          jal randomint
                              # putty random value to $54
          add 354, 4VD, 40
          Im $23, 0($20)
          add 453, 153, 554 # address random value to current others
          SW $53, O($50) # loading new value
                             # Incrementing andress to get the rext army Hen
         addi 450, 450, 4
         addi $52, $52, 1 # incrementing 1
         J while
   done:
         Iw Sta, O($51)
                           # loading saved variables
         (w $50, 4($5P)
         lw 151, 8 ($5P)
         lw $52, 12 ($5P)
         lw 453, 16 ($5P)
         lu $54, 20 ($59)
         add $5P, $5P, 24
                        # exiting function
         Jr 110
```