TP10 (Seven Segment Displays) Port: OUT 02

Computer Architecture (Assembly Language smz32v50)

The seven-segment displays are connected to port 02 (OUT 02).

1) The seven segments display by using DB (choose one range below).

a) Displays even numbers: Ex: 00, 02, 04, …., 98

b) Displays odd numbers: Ex: 01, 03, 05,…..,99

c) Displays countdown: Ex:99, 98, 97, ….., 00

d) Displays number divided by : Ex: 00, 05, 10,….., 95

Noted: by using the comment code below

- []
- ADD
- INC
- DIV EX:(? DIV10) 10 = 0A => 0 DIV 10 = 0, (1 DIV 10 = 0,… => DIV = 0)
- MOD EX:(? MOD 10) => 0 MOD 10 = 0, (1 MOV 10 = 1, 2 MOD 10 = 2)…..
- CMP
- JMP, JZ, JNZ, …..
- MOV,….

Explain all comments code and calculate the result (score best on your comment details if not zero score)

Ex:

➔ MOV AL, 1 ; using MOV for restore a value of AL… (=> AL = 1)

➔ Ex: ADD AL, 2 ; using ADD for calculate sum of… (AL + 2 => 1+2 = 3)

➔ ….

Don’t copy code from other and try to do yourself (I will check)