Assignment No: 03 (COAL Theory)

Submission Deadline 29-December-2021

Question No: 01

The following bytes are found in order somewhere in memory. Assuming they are machine codes, decode the values into meaningful assembly language mnemonics. (All Values are in Hexadecimal)

i.   B8 B9 20
ii.   89 6F FE
iii. E2 FE
iv.   8C 85 DC 21
v.   B8 30 25
vi.   8E D8
vii. 89 7C FE.

Question No: 02

Convert the following independent Assembly Language instructions to Machine Language code

– give your answers in hexadecimal:

i.   POP AX
ii.   PUSH BX
iii. MOV [DI+2A6h], AX
iv.   AND AX, [SI + DI + EDh]
v.   OR BX, [SI + DI + 20F8h]
vi.   LOOP L1 ; where L1 = Current IP – 20
vii. MOV [SI+490], SP

Instruction for Submission

Show complete working. Final answers should be in Hexadecimal. You have to submit assignment on both Google Classroom and in Hard Copy also.