CS2400- Take home program (20 points)

Write an ARM assembly program with the below given instructions

1. Declare a variable 'A' and, from your 900 number and discard the 2nd and 3rd 0s and store it in HEX format. Load the value in variable 'A' in register R3. (3 points)

   (Example if your #900 is 900123456 and discard the 2nd and 3rd 0s from it manually ,So 900123456 becomes 9123456. Assign 9123456 in the variable 'A' in Hex format, here in the example Hex format will be 0x8B3680).

2. Copy the last 10 bits of the value stored in R3 into R5, copy the bits from 11 to 20 to R6 and Copy bits 21 t0 32 in R7 and Store the values in a stack in the order R6, R5, R7. (15 points)

3. Before the program document your Name, 900 number, Date, Time taken for doing the program, References. (2 points)