Question 1:

They load the effective address of msg1 into register X0.

Question 2:

Loads the address of msg2 into X1.

Question 3:

ADRP & ADD can cover a much further range of addresses (+/- 4GB) than ADR (+/- 1MB)

Question 4:

0x0000000080017000

0x0000000080001000

0x0000000080017130

0x0000000080017142

0x000000008001715E

0x000000008001715F

0x0000000080017161

0x0000000080017165

Question 5:

0x0000000080017130

0x0000000080017142

0x000000000000002D

0xFFFFFFFFFFFFF654

0xFFFFFFFFCAFEBABE

0x00000000FEEDFACE

0x000000008001715E

Question 6:

Question 7:

Changes the fourth letter to uppercase.

Question 8:

Translates the first byte of your integer to to an ascii string of the value in hex.

Question 9:

.section .text

.globl lab02d

lab02d:

ADRP X3, myvalue

ADD X3,X3, :lo12:myvalue

ADD X0,X0, #1000

STUR X0,[X3]

ORR X0,XZR,X3

BR X30

.section .data

myvalue: .word