Question 1:

yes

Question 2:

8B010000

Question 3:

8

Question 4:

8

Question 5:

10

Question 6:

/\*main.c simple program to test assembler program \*/

#﻿include <stdio.h>

extern﻿ long long int test();

int main(void)

{﻿

﻿﻿﻿﻿﻿﻿﻿ long long int a = test();

﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿ printf("Result of test() = %d\n" , a);

return 0;

}﻿﻿﻿﻿﻿

.glbl test

test:

orr X0, XZR, #3

orr X1, XZR, #7

add X0, X0, X1

br X30

Question 7:

Values Used:﻿

Y - 7

Z - 7

﻿X1 - 0

X2 - 896

X0 - 896

Functions:

X﻿1 = Y/(2^Z)

X2 = Y\*(2^Z)

X0 = X1 + X2﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿﻿ ﻿﻿﻿﻿