

AUSTIN COMMUNITY COLLEGE
DEPARTMENT OF COMPUTER STUDIES AND ADVANCED TECHNOLOGY

COSC 2325 (3-2-4) – Computer Organization and Machine Language Assignment 6 (Team Assignment)
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Write the corresponding ARMv8 Assembly code for the following C code exercises. Registers are expected to be initialized before used.

1) `x= (y & 15) | (z << 3)`

2) `for (k=0; k<7; k++){
 m=m+k;
}`

3) `if (x == 0) {
 x= x+5;
}
else{
 //Display a message of your preference
}`

4) `if (x<y){
 a=5;
 b=c+d;
else a=c-d`

5) `while(i != j) {
 if (i > j)
 i -= j;
 else
 j -= i;
}`

Each exercise must be implemented in a separate file. Assembly code files (.s files) should be uploaded under File Exchange in your corresponding Group module in BB.