

AUSTIN COMMUNITY COLLEGE
DEPARTMENT OF COMPUTER STUDIES AND ADVANCED TECHNOLOGY

COSC 2325 (3-2-4) – Computer Organization and Machine Language Lab 5
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1. Implement the following code in ARMv8 assembly. Show your code (just copy/paste your working/tested/debugged code solution) for each exercise.

```
a. a=9
   b=5
   if (a > b) :
       a+=1
```

```
b. i=5
   j=5
   if (i!=j) :
       f=g+2
   else:
       f=g+h
```

```
c. a=5
   b=3
   total=a-b
```

2. Implement the following code in ARMv8 assembly. Show your code (just copy/paste your working/tested/debugged code solution)

```
a=4
b=2
c=1
z=a*(b+c)
```

3. How can you implement the following c-code for loop in ARMv8 assembly? Show your code (just copy/paste your working/tested/debugged code solution)

```
m=2
for (k=0; k<5; k++) :
    m=m+m;
```