**CSE 30 – ARM worksheet 2**

**Translate the following C code to assembly**



if (a > 5){//a to r0

a++;



}



if (a > 5 && b < 10){// a to r0

// b to r1



a += b;



}



if (a > 5 || b < 10){// a to r0

// b to r1

a += b;



}



if (a > 5){//a to r0

a++;



}



else{



a = 20;



}



for(int i = 0; i < n; ++i){//i to r0,

//n to r1,

//a to r2

a += i;

}

i = 20; //r0

a = 30; //r1

while(i-- > 0){

a -= i;

if (a < i) break;

}