

## 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;
}
```

---