COMP2611 Midterm Quick Reference

1. Base Conversion

| Bin | Dec | Hex |
|----------------|------|-----|
| 0000 | 0 | 0 |
| 0001 | 1 | 1 |
| 0010 | 2 | 2 |
| 0011 | 3 | 3 |
| 0100 | 4 | 4 |
| 0101 | 5 | 5 |
| 0110 | 6 | 6 |
| 0111 | 7 | 7 |
| 1000 | 8 | 8 |
| 1001 | 9 | 9 |
| 1010 | 10 | А |
| 1011 | 11 | В |
| 1100 | 12 | С |
| 1101 | 13 | D |
| 1110 | 14 | Е |
| 1111 | 15 | F |
| 11 0000 | 48 | 30 |
| 0100 0001 | 65 | 41 |
| 0110 0001 | 97 | 61 |
| 0111 1111 | 127 | 7F |
| 1000 0000 | 128 | 80 |
| 1111 1111 | 255 | FF |
| 0001 0000 0000 | 256 | 100 |
| 0011 1111 1111 | 1023 | 3FF |
| 0100 0000 0000 | 1024 | 400 |

2. MIPS Code for Inequal Equation

```
if($i < $j) stat_A;
else stat_B;</pre>
```

```
if($i > $j) stat_A;
else stat_B;
```

```
if($i <= $j) stat_A;
else stat_B;</pre>
```

```
if($i >= $j) stat_A;
else stat_B;
```