CPEN 411 Assignment 0

Question 1

```
R1 = 0x0000 0000 0000 0008
R2 = 0x0000 0000 0004 0000
R3 = 0x0000 0000 0004 0008
R4 = 0x0000 0000 0400 0800
Question 2
#include <stdio.h>
#define FOO(W) if (W > 4)
                   glurph = 2;\ else\
                   glurph = 1;
#define BAR(X, Y) (X + Y)
int main(int argc, char **argv) {
     int glurph;
    FOO(BAR(2, 3));
     printf("%d\n", glurph);
}
FOO(BAR(2,3)) \Rightarrow FOO(5) \Rightarrow glurph 2
```

Question 3

output: 2

Control Signal	Cycle 1	Cycle 2	Cycle 3	Cycle 4
top-mux-sel	0	0	-	1
write	0	0	0	1
writenum (3 bits)	-	-	-	001
readnum (3 bits)	010	011	-	-
loada	1	0	0	-
loadb	0	1	0	-
muxa-sel	0	0	1	-
muxb-sel	0	0	1	-
alu-op (2 bits)	-	-	00	-
loadc	0	0	1	0