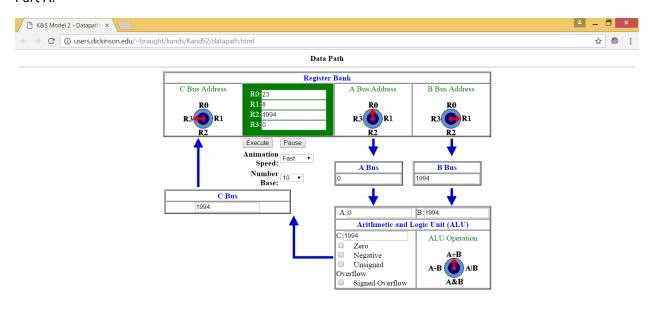
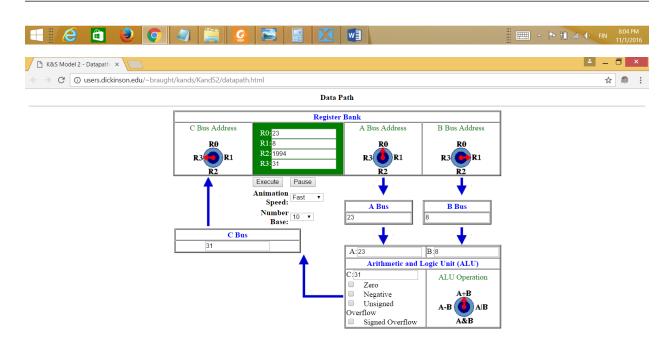
```
Exercise 1:
PUSH M2
PUSH M4
MUL
                    //M2*M4
POP M5
PUSH M5
PUSH M3
ADD
                    //M3+(M2*M4)
POP M6
PUSH M1
PUSH M2
ADD
                    //M1+M2
POP M7
PUSH M6
PUSH M7
MUL
POP M2
                    //(M1+M2)*(M3+(M2*M4))
Exercise 2:
  attribute__(( naked )) void asm_test(int *a, int *b, int *c, int *d)
asm volatile
(
             "push {r4, r5, r6, r7} \n"
             "ldr r4, [r0] \n"
             "ldr r5, [r1] \n"
                                              //r5 = M2
                                             //r5 = M2
//r6 = M1+M2
             "adds r6, r4, r5 \n"
             ""ldr r4, [r3] \n"
"muls r4, r5, r4 \n"
                                               //r4 < - M4
                                             //r4 < - M4
//r4 = M2*M4
                                             //r5 <- M3
             "ldr r5, [r2] \n"
                                            //r7 = M3+(M2*M4)
//r7 = (M1+M2)*(M3+(M2*M4))
             "adds r7, r4, r5 \n"
             "muls r7, r6, r7 \n"
             "<u>str</u> r7,[r1] \n"
             "pop {r4, r5, r6, r7} \n"
             "bx <u>lr</u> \n"
);
```

```
void fail() {
     printf("Failed\n"); // set a break point here
}
```

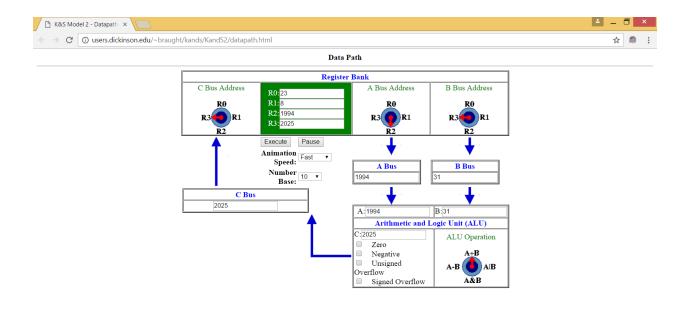
Exercise 3:

Part A:











Part B:

