Coding Exercise 1

Exercise 2

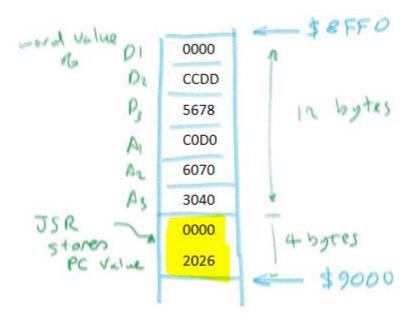
What's the value of SP? \$9000 - 16 = \$8FF0

What's the longword value in (SP)? \$ 0000 CCDD

What's the value of PC? 0000308E

What's the displacement value in hexadecimal? 0000308E - 000030D2 = -68 IN DECIMAL = 10111100 = BC

How does the stack look like?



Coding Exercise 2

```
MOVE.W #5, D0; calculating Factorial 5
MOVE.W #1, D1; Result in D1

JSR FACT

FACT MULU.W D0, D1
SUB.W #1, D0

CMP #1, D0
BEQ DONE; base case

JSR FACT; Recursive call
BRA EXIT

DONE RTS FACT

EXIT
```