```
Question 1
```

```
no, because we cannot determine whether those 8 bits is the binary representation
of on integer or the ASCII code of a character, it could be either.
```

Question 2

(a)

```
(6) load CPU-0, 109
      Soure CPU_0, 50
      load CPU_0, 110
      Soure CPU_0, 51
      load CPU_0, 111
      Soure CPU_0, 52
```

Question 3

- (b) 2 bytes
- (c) $|| 1 || 1 || 1 || 1 ||_2 = || e 23_{||e|} = || \cdot 8^3 + 7 \cdot 8^2 + 7 \cdot 8^3 + 7 \cdot 8^9 = 1777_8$
- (d) two's complement signed number follolles = . , where f(s) = 1 is a sum of the second => 50 [0][0][0, = -74, = -4A is => B6 is two's complement

Question 4

(b) there is an signed overflow

Question 5

Fraction: 1000000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

fixal withor: 0 of 1 m 1 m | second | | 0 | | 100 | | 00 | | 00 | | 100 | | 100 | 100 | 100 | 100 | 100 | 100 |

- (a) + (b) with a convert to doble precision

 - = 1111, | 00 | 000] | 00 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | ×2°
 - = 1.11 | 00 | 000 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 | | 00 |

signbit: 0

Fraction: 111 |00 |000 | |00 | |00 | |00 | |00 | |00 | |00 | |00 | |00 | |