**Lab 2**

**Part A**

1. Convert 01010001 [base 2] to decimal [base 10].
   1. 81
2. Convert 01001100 [base 2] to decimal [base 10].
   1. 76
3. Convert 01101110 [base 2] to decimal [base 10].
   1. 110
4. Convert 01011001 [base 2] to decimal [base 10].
   1. 89
5. Convert 01011010 [base 2] to decimal [base 10].
   1. 90

**Part B**

1. Convert 45 [base10] to binary [base 2].
   1. 00101101
2. Convert 113 [base 10] to binary [base 2].
   1. 01110001
3. Convert 48 [base 10] to binary [base 2].
   1. 00110000
4. Convert 255 [base 10] to binary [base 2].
   1. 11111111
5. Convert 97 [base 10] to binary [base 2].
   1. 01100001