Numeral systems

# Exercises for the laboratory

1. Convert from decimal to binary:
   1. (382)10=
   2. (2145)10 =
   3. (0)10 =
   4. (453)10 =
   5. (your student number)10 =
2. Convert from binary to decimal:
   1. (1101001001)2 =
   2. (1101001)2 =
   3. (11)2 =
   4. (111)2 =
   5. (1111)2 =
3. Convert from octal to binary (without computing the decimal value):
   1. (345)8 =
   2. (7462)8 =
   3. (123)8 =
4. Convert from binary to octal (without computing the decimal value):
   1. (111101010)2 =
   2. (1001001)2 =
   3. (101000101)2 =
5. Convert from hexadecimal to decimal:
   1. (123)16 =
   2. (ABCDEF)16 =
6. Perform calculations (without computing the decimal value):
   1. (101000110101)2 + (1001001)2 =
   2. (101000110101)2 - (1001001)2 =
   3. (46772)8 + (34561)8 =

# Homeworks

1. Convert from octal to binary (without computing the decimal value): **(1 pkt)**
   1. (472)8 =
   2. (153)8 =
   3. (544)8 =
2. Perform calculations (without computing the decimal value): **(1 pkt)**
   1. (1101001001)2 + (1001)2 =
   2. (5467271)8 - (14311)8 =