let binary = ""

let helyiertek = 0

let hossz = 0

let receivedString = ""

let decimal = 0

let mode = 0

let index = 0

basic.forever(() => {

decimal = 0

receivedString = serial.readLine()

hossz = receivedString.length

if (receivedString.compare("-B2D") == 0) {

mode = 0

serial.writeLine("")

serial.writeLine("Binary to Decimal")

} else if (receivedString.compare("-H2D") == 0) {

mode = 1

serial.writeLine("")

serial.writeLine("Hexa to Decimal")

} else if (receivedString.compare("-D2B") == 0) {

mode = 2

serial.writeLine("")

serial.writeLine("Decimal to Binary")

} else {

if (mode == 0) {

helyiertek = 1

for (let index = 0; index <= hossz - 1; index++) {

decimal = decimal + parseInt(receivedString.charAt(hossz - (index + 1))) \* helyiertek

helyiertek = helyiertek \* 2

}

serial.writeLine("")

serial.writeNumber(decimal)

} else if (mode == 1) {

for (let index = 0; index <= hossz - 1; index++) {

if (receivedString.charAt(hossz - (index + 1)).compare("F") == 0) {

decimal = decimal + 15 \* helyiertek

} else if (receivedString.charAt(hossz - (index + 1)).compare("E") == 0) {

decimal = decimal + 14 \* helyiertek

} else if (receivedString.charAt(hossz - (index + 1)).compare("D") == 0) {

decimal = decimal + 13 \* helyiertek

} else if (receivedString.charAt(hossz - (index + 1)).compare("C") == 0) {

decimal = decimal + 12 \* helyiertek

} else if (receivedString.charAt(hossz - (index + 1)).compare("B") == 0) {

decimal = decimal + 11 \* helyiertek

} else if (receivedString.charAt(hossz - (index + 1)).compare("A") == 0) {

decimal = decimal + 10 \* helyiertek

} else {

decimal = decimal + parseInt(receivedString.charAt(hossz - (index + 1))) \* helyiertek

}

helyiertek = helyiertek \* 16

}

serial.writeLine("")

serial.writeNumber(decimal)

} else {

binary = ""

decimal = parseInt(receivedString)

while (decimal / 2 != 0) {

if (decimal % 2 == 0) {

binary = "0" + binary

} else {

binary = "1" + binary

}

decimal = decimal / 2

}

binary = "1" + binary

serial.writeLine("")

serial.writeLine(binary)

}

}

})

mode = 0

serial.writeLine("")

serial.writeLine("Binary to Decimal")