let hossz = 0

let receivedString = ""

let mode = 0

let decimal = 0

let helyiertek = 0

let index = 0

basic.forever(() => {

helyiertek = 1

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 (mode == 0) {

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 {

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)

}

}

})

index = 0

mode = 0

serial.writeLine("")

serial.writeLine("Binary to Decimal")