

Number system

Assignment Questions



Q1 – Convert a decimal number into binary

(Easy)

Input1:

56

Output1:

111000

Input2:

163

Output2:

10100011

Q2 – Convert a binary number to decimal

(Easy)

Input1:

10100011

Output1:

163

Input2:

100011

Output2:

35

Q3 – Add two numbers given in different base

(Medium)

Input1: 1st number is decimal, 2nd number is binary

43

10100011

Output1: In decimal number

206

Input2:

35

111000

Output2:

91

Q4 - Multiply two numbers given in different base

(Hard)

Input1: 1st number is decimal, 2nd number is binary

43

10100011

Output1: In decimal number

7009

Input2:

56

100011

Output2:

1960

Q5 - Convert a decimal double number into binary string for upto k precision digits

(Hard)

Input1:

18.625

3

Output1: (in string format)

10010.101

Input2:

32.45

4

Output2:

100000.0111