Q1. Write the decimal equivalent of the binary number 10110

Ans: 2^0 \* 0 + 2^1 \* 1 + 2^2 \* 1 + 0 + 2^4 \* 1 = 0 + 2 + 4 +0 +16= 22

Q2. Write the decimal equivalent of the binary number 110101

Ans: 2^0 \* 1 + 2^1 \* 0 + 2^2 \* 1 + 0 + 2^4 \* 1+ 2^5 \* 1 = 1+0+4+0+16+32=32+20+1=52+1= 53

Q3. Write the binary equivalent of the decimal number 45

Ans: 45 = 32 + 8 + 4 +1= 2^5 \* 1+ 2^4 \* 0 + 2^3 \* 1 + 2^2 \* 1 +2^1\*0+ 2^0 \* 1

Binary equivalent= 101101

Q4. Write the binary equivalent of the decimal number 60

Ans: 60 = 32 + 16 + 8 + 4 = 2^5\*1 + 2^4\*1 + 2^3\*1 + 2^2\*1 + 2^1\*0 + 2^0\*0

Binary equivalent= 111100

Q5. Write the binary equivalent of the decimal number 33

Ans: 33 = 32 + 1 = 2^5\*1 + 2^4\*0 + 2^3\*0 + 2^2\*0 + 2^1\*0 + 2^0\*1

Binary equivalent = 100001