

1. Write a program to count number of bits set in an integer.
2. Given N, Print following pattern (FOR N = 5)
ABCDEEDCBA
ABCDDCBA
ABCCBA
ABBA
AA
3. Write a program which takes a number as input and prints if its an Armstrong number or not. (Google Armstrong numbers)
4. Write a program to calculate roots of a quadratic equations $ax^2 + bx + c = 0$, display them on screen specifying their nature.
5. Given a number, calculate square root of the number using methods discussed in the class.
6. Write a program to print the following patterns using for loop

a)

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