

ASSIGNMENT-04

Problems on decision making / branching statements

1. WAP to check whether a given no is positive or negative.
2. WAP to check whether a given no is even or odd.
3. WAP to find the largest among two nos.
4. WAP to test whether a given no is divisible by 7 or not.
5. WAP to test whether the given no is divisible by both 11 & 13.
6. WAP to check the validity of a triangle if three sides are given.
7. WAP to evaluate the following expression
$$X = (a - b) / (c - d)$$
and give the error message when **c == d**.
8. WAP to round a given floating point no to integer by considering the floor & ceiling operation, without using built in function.
9. WAP to test whether a 3 digit no is palindrome or not.
10. A set of linear equation with two unknown **x1** & **x2** is given,
$$a x_1 + b x_2 = m, \quad c x_1 + d x_2 = n$$
The set has unique solutions:
$$x_1 = (md - bn) / (ad - cb) \quad \& \quad x_2 = (na - mc) / (ad - cb)$$
Provided the denominator (**ad - cb**) is not equal to zero.
WAP that will read the values of constants a, b, c, d, m, n and compute the values of x_1 & x_2 .
An appropriate message is printed if (**ad - cb**) = 0.
11. WAP to check whether a given year is leap year or not using **nested else..if**.