

Assignment (Day-2)

1. WAP to evaluate the following expression from inputted values of a, b, c, d.
 $x = (a - b) / (c - d)$. Give a suitable error message if denominator is zero.
2. WAP to round a given floating point number to integer by considering the floor & ceiling operation without using built in function.
3. WAP to compute the real roots of the quadratic equation $ax^2+bx+c=0$. Take care of the following situations.
 - No solution if a & b are zero.
 - There is only one root if $a=0$.
 - There is no real root if $b^2-4ac<0$
 - Otherwise compute the two real roots
4. Enter 3 sides of a triangle. WAP to check whether those sides form a valid triangle or not (it is valid if sum of the two sides is greater than the largest of three sides). Then classify the given triangle is isosceles, equilateral or right-angled or scalars.
5. Enter three numbers and arrange the numbers in descending order.
6. WAP to check a character is a vowel or consonant.
7. Enter two numbers n1 and n2 and an operator op (+, -, *, /, %) & then print the result. For eg if the operator is + then it should print $n1+n2$.
8. In an experiment, the temperature of the oven will be set based on the reading from a pressure meter. The rules are:
 - a. If reading = 2 or 3 : temperature should be set to 500 degrees.
 - b. If reading = 4: temperature should be set to 600 degrees.
 - c. If reading = 5 or 6 or 7: temperature should be set to 700 degrees
 - d. For any other reading, the default temperature setting is 300 degrees.

Good Luck...