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<?php
#Assignment 1
#Sep,26 2024
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$pressure = readline("enter the value for pressure P: ");
$length = readline("enter the length(meters): ");
$width = readline("enter the width(meters): ");
$height = readline("enter the height(meters): ");
# Ask the user for the temperature and add 273.14 to the value.
$temp = readline("enter the temperature: ");
$temp = $temp + 273.14;
# Convert all inputs to float
$pressure = (float) $pressure;
$length = (float) $length;
$width = (float) $width;
$height = (float) $height;
$temp = (float) $temp;
# Calculate the volume
$volume = $length * $width * $height;
echo "volume in meters cube is $volume\n";
# Constants
$r = 8.314;
# Calculate the number of moles
$n = ($pressure * $volume) / ($r * $temp);
echo "the number of moles is $n\n";
echo ("the number of moles rounded up is ".ceil($n)."n");
$moles_rounded = ceil($n);
if($moles_rounded % 2 == 0){
#If even, convert to odd
    $moles_rounded = $moles_rounded + 1;
}else{
#If odd, convert to even
    $moles_adjusted = $moles_rounded + 1;
}
echo "The number of moles after adjustment is: $moles_adjusted\n";
?>

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