

1. What does it mean to declare a variable?

Ans. declaring a variable means, assigning a value to the variable. by declaring a ~~value~~ variable, computer can read the value that assigned to the variable.

2. Algorithm to display multiplication table.

Ans. Step 1 \rightarrow Start
 Step 2 \rightarrow Declaring variable num, times, sum
 Step 3 \rightarrow Read values from num and times.
 Step 4 \rightarrow For (var $i = 1$; $i \leq \text{times}$; $i++$)

~~sum * i = sum~~
 $\text{sum} = \text{num} + 'x' + i + '=' + \text{num} * i$

Print sum

Step 5 \rightarrow Stop.

3. Develop an algorithm for basic arithmetic operations

Ans. step 1 : Start
 step 2 : declare variables num1, num2, sign, sum
 step 3 : Read values from num1, num2, sign.
 step

step 4 : if sign == '+'

sum = num1 + num2

else if sign == '-'

sum = num1 - num2

else if sign == '*'

sum = num1 * num2

else if sign == '/'

sum = num1 / num2

step 5 : print sum

step 6 : stop