**1)Write an algorithm for accepting two numbers, divide the first number by second and display their quotient**

Step1: Start

Step2 : Define the variables  
 1st number=N1 2nd number=N2 Quotient= Q

Step 3: Read

Accept N1  
 Accept N2

Step 4: Compute

Q= N1 / N2

Step 5: Display

-------------------------------------------------

The quotient of the given number is Q

Step 6: End

**2) Write an algorithm for accepting distance in kilometres, convert into metres and display the result**

Step 1: Start

Step 2 : Define the variables  
 dkm=distance in kilometres m=meters

Step 3: Read

Distance in kilometres  
 dkm

Step 4: Compute

Convert dkm to m  
 m= dkm \* 1000

Step 5: Display  
 -----------------------------------

The distance in metres is m  
Step 6: End

**3) Write an algorithm for accepting five numbers and display the sum and average of the numbers**

Step 1: Start

Step 2: Define variables

N1,N2,N3,N4,N5 SUM AVG

Step 3: Read

Accept N1,N2,N3,N4,N5

Step 4 : Compute

SUM = N1+N2+N3+N4+N5

Step 5: Compute

AVG = SUM / 5

Step 6 : Display

----------------------------------------   
 The sum of the given numbers are SUM  
 The average of the given numbers is AVG

Step 7 : End

**4) Write an algorithm for accepting a number and display whether it is even or odd**

1. Start
2. Define or declare the variables

Number , Reminder

1. Read  
   N
2. Compute

reminder = N % 2

1. Compare:

If remainder =0, go to step6

If remainder !=0, got to step 7

1. Display

It is an even number

1. Display  
   It is an odd number
2. End

**5) Write an Algorithm for accepting two numbers and display the highest among the two**

1) Start

2) Define the variables  
 1St number = N1 2nd number = N2

3) Read

Accept N1 and N2

4) Compute

N1 > N2

If true, go to step 5  
 If false, go to step 6

5) Display

---------------------------------

N1 is the highest among the two numbers.

6) Display

---------------------------------

N2 is the highest among the two numbers.

1. End

**6) Write an algorithm for calculating area of rectangle and square separately**

1) Start

2) Define variables

L=length AR= area of rectangle S=side  
 B= Breadth AS= area of square

3) Read

L B S

4) Compute

AR= L \* B

AS= S \*S

5) Display

--------------------------------  
 Area of rectangle is AR  
 Area of Square is AS

6) End

**7) Write an algorithm for accepting the distance and speed values for a particular journey, calculate the time taken for the journey and display the same**

Step1: Start

2) Define variables

T=Time taken D= distance S=speed

3) Read

D and S

4) Compute

T= D / S

5) Display

-------------------------------  
the time taken for this journey is T

6) End

**8)Wite an algorithm for accepting a character and then display whether it is a vowel or consonant**

1) Start

2) Define variable

X1

3) Read

X1

4) Compute

X1=’a’ or ‘e’ or ‘i’ or ‘o’ or ‘u’

If true, then go to 5

If false, then go to 6

5) Display

-----------------------

The given character is a vowel

6) Display

---------------------------  
 The given character is a consonant

7) End

**9)Write an algorithm for accepting three numbers and display the highest number among the three numbers**

1)Start

2) Define or declare the variables  
 a, b & c

3) Read  
 a b c

4) Compute

If a>b and a>c

5) Compare  
 If step 4 is true, then perform step 7  
 ---------------

6) Compare

If b>c  
If true, then perform step 8

7)Display

------------------------

A is the greatest of the all the given numbers

1. Display  
   --------------------

B is the greater number

1. End

**10) Write an algorithm for accepting the age of user and if the age is valid, check whether the user is a kid, a teenager, an adult or a senior citizen**

1. Start
2. Define the variables

Age

1. Read  
   age
2. Compute

If age >0 and age <100 is true,   
else go to step 10

if age<12 ,go to step 5

if age is between 13-19 ,go to step 6

if age is between 20-65,Go to step 7

if age>65 ,Go to step 8

5)Display

--------------------------------  
user is a kid  
6) Display

--------------------------------------  
user is a teenager  
7) Display

-----------------------------------  
use is an adult

8) Display

-------------------------------  
user is a senior citizen

10) Display  
----------------------  
age is invalid

11) End