



Flowcharts & Pseudocodes

📌 Learning's,...

What are FlowCharts?

Flow charts are Diagrams that represent solutions to Problems. To solve any problem Logically we have to divide the problem into small parts & Arrange it logically and then try to solve it,....

Example:- Make a Tea

Start

Bowl with water ▼

Gas stove on ▼

Sugar, tea, leaves, milk ▼

Boil ▼

Exist

Flowcharts Components,...

Components

Start/Exit

Start

Input/Output

Read N

Print "Hi"

shree.s.kudande@gmail.com

Process

name = "Shradha"

sum = a+b

Decision

is
marks>33?

YES

print "PASS"

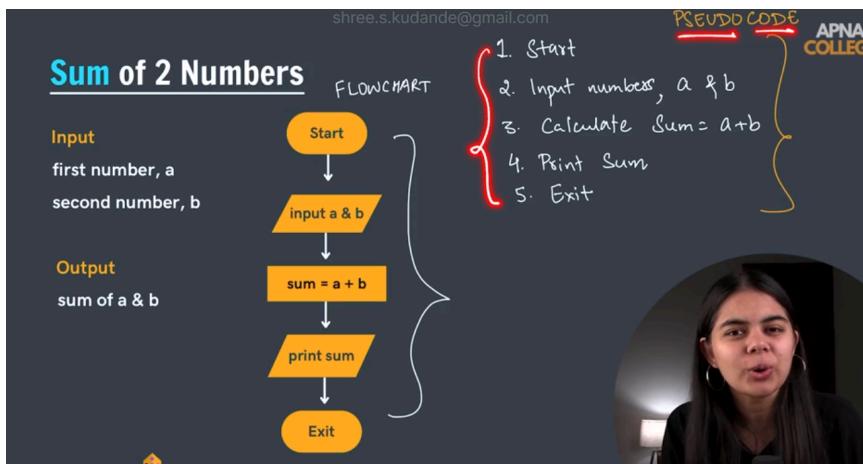
NO

print "FAIL"

LOGIC BUILDING



Sum of 2 Numbers,...



Calculate Simple Interest,...

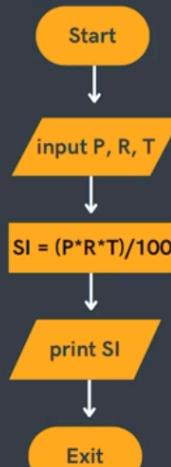
Calculate Simple Interest

Input

Principal, P

Rate, R

Time, T

Output
 $SI = PRT/100$ 

LOGIC BUILDING

1. Start

2. Input Principal(P), Rate(R) & Time(T)

3. Calculate

$$SI = (P \times R \times T) / 100$$

4. Print SI

5. Exit



Max of 3 Numbers,...

Find max of 3 numbers

Pseudo Code

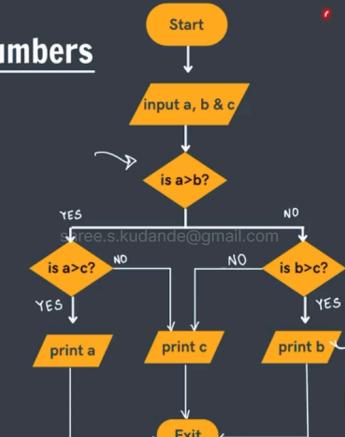
```

1. Start
2. input a,b & c
3. if a>b do
   : if a>c do
   :   print a
   : else
   :   print c
   : else
   :   if b>c do
   :     print b
   : else
   :   print c
4. Exit
  
```

LOGIC BUILDING

Input
3 numbers :
a, b & c
Output

max of 3

APNA
COLLEGE

Find if a Number is Prime or Not,...

Find if number is prime

Pseudocode

```

1. Start
2. Input n
3. let div = 2
4. while div < n do
    if N % div == 0 do
        print "NOT prime"
        Exit
    else
        div = div + 1
5. Print prime
6. Exit

```

shree.s.kudande@gmail.com

LOGIC BUILDING

Input number, n

Output prime or not prime

APNA COLLEGE

Sum of first N natural numbers,...

Sum of first n natural numbers

Pseudocode

```

1. Start
2. Input n
3. let val=1 & sum=0
4. while val <= n do
    sum = sum+val
    val = val+1
5. Print sum
6. Exit

```

shree.s.kudande@gmail.com

LOGIC BUILDING

Input number, n

Output sum of first n natural numbers

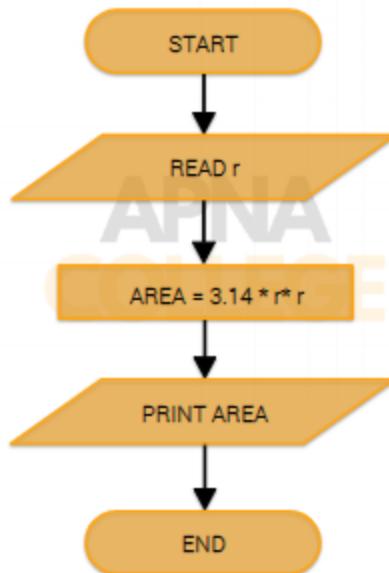
APNA COLLEGE

Practice Questions

Question 1: Flowchart to Calculate the area of a Circle.

Ans -

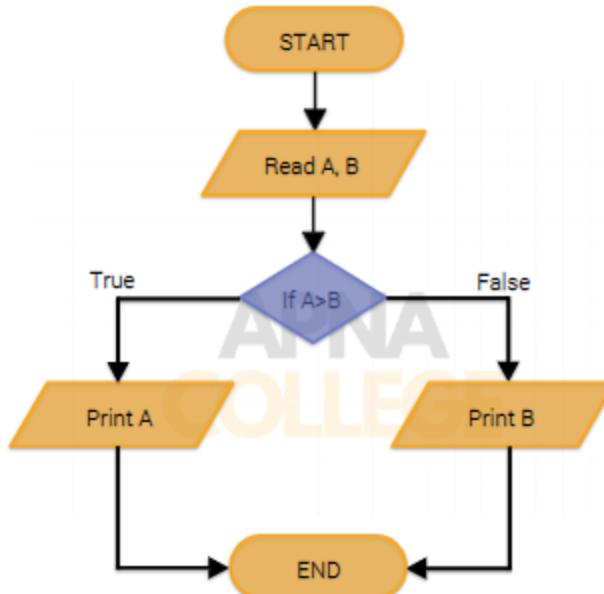
Solution 1:



Question 2 : Flowchart to Find the Greatest from 2 Numbers.

Ans :

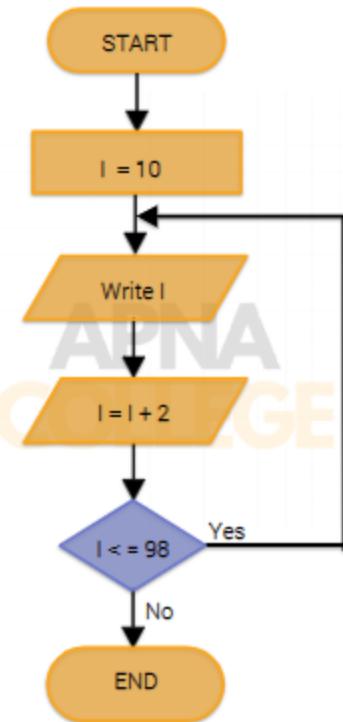
Solution 2:



Question 3 : Flowchart to Print the Even numbers Between 9 and 100.

Ans :

Solution 3:



Question 4 : Flowchart for calculating the average from 25 exam scores.

Ans :

Solution 4:

