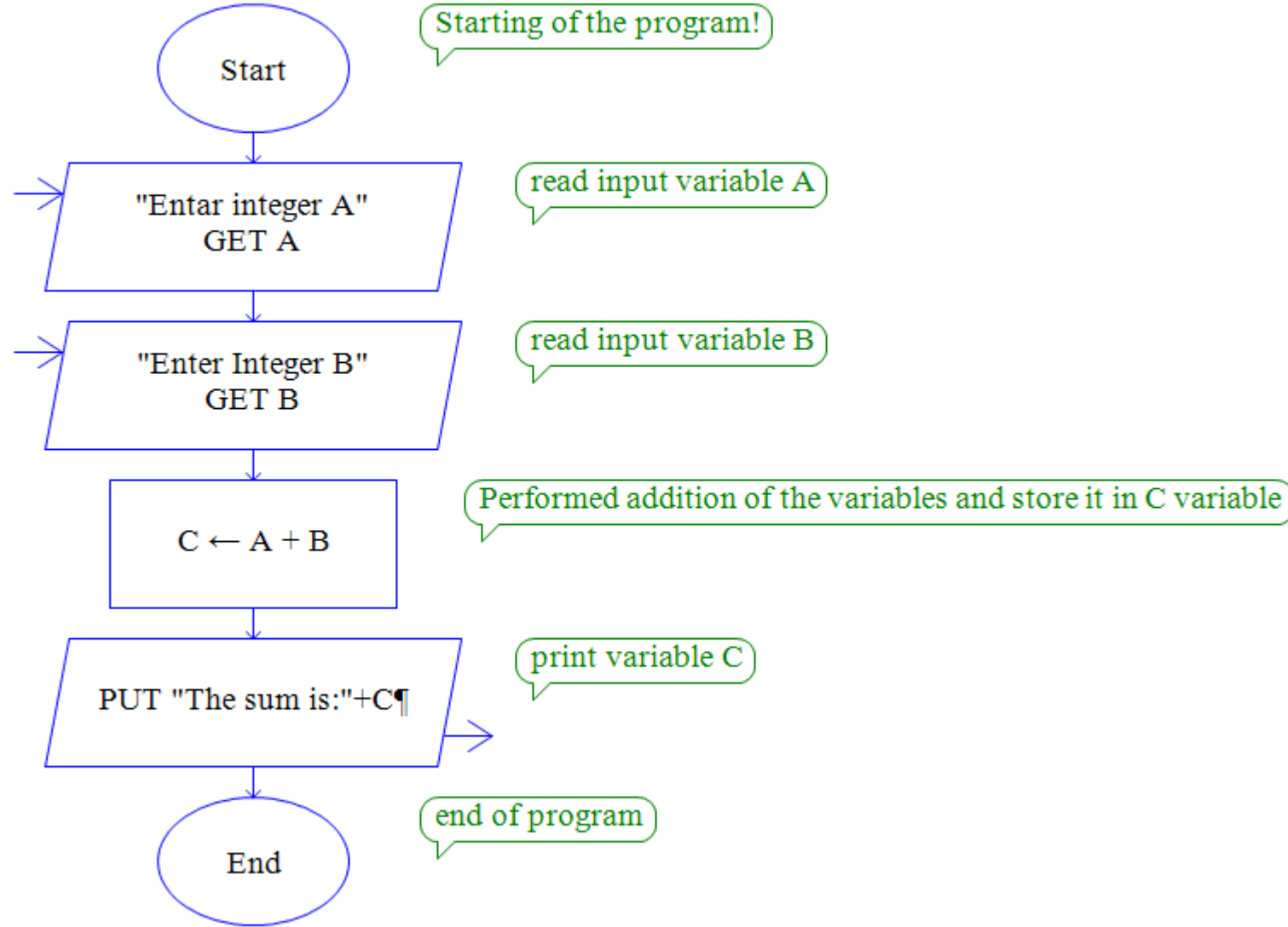


Algorithms and Flow Chart

- Algorithm
 - To write a logical step-by-step method to solve the problem is called the algorithm
- Flowchart
 - A flowchart is the graphical or pictorial representation of an algorithm with the help of different symbols, shapes, and arrows to demonstrate a process or a program.
- Pseudo code













Algorithm	Flowchart
It is a procedure for solving problems.	It is a graphic representation of a process.
The process is shown in step-by-step instruction.	The process is shown in block-by-block information diagram.
It is complex and difficult to understand.	It is intuitive and easy to understand.
It is convenient to debug errors.	It is hard to debug errors.
The solution is showcased in natural language.	The solution is showcased in pictorial format.
It is somewhat easier to solve complex problem.	It is hard to solve complex problem.
It costs more time to create an algorithm.	It costs less time to create a flowchart.



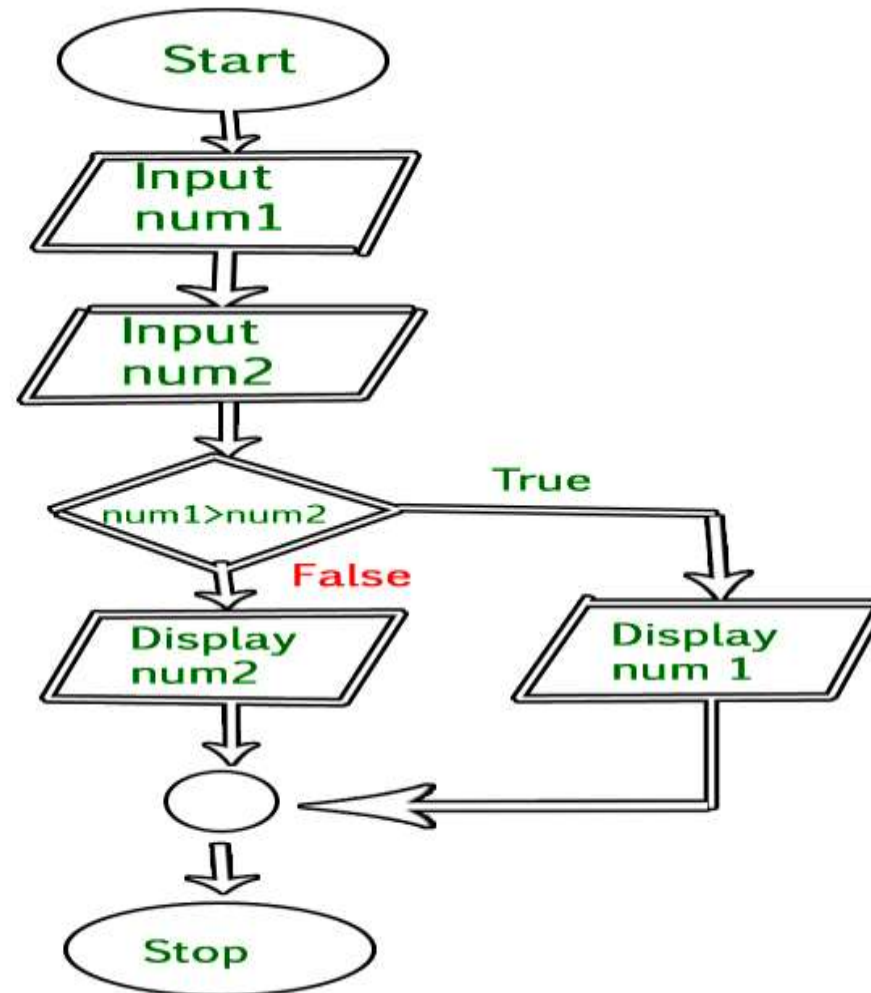
Print 1 to 20

Convert Temperature from Fahrenheit (°F) to
Celsius (°C)

Determine Whether A Student is eligible for
B.Tech in VIT

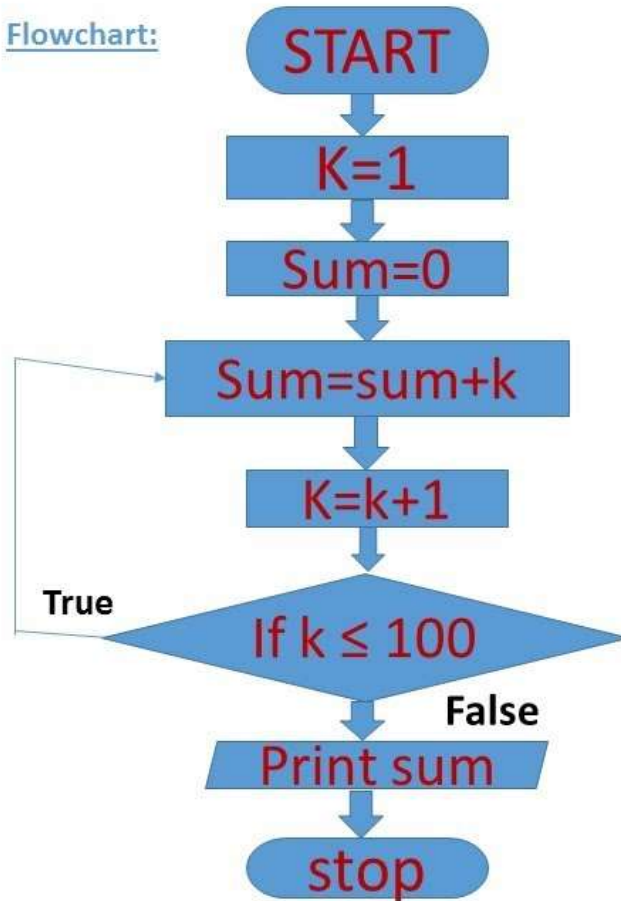
Name	Symbol	Name	Symbol
	Flow Line		Magnetic Disk
	Terminal		Communication Link
	Processing		Offline Storage
	Decision		Annotation
	Connector		Flow line
	Document		Off-Page Connector

Draw a flowchart to input two numbers from user and display the largest of two numbers



Sum of N numbers

Flowchart:



Algorithm:

- (i) Let $k=1$
- (ii) Let $\text{sum}=0$
- (iii) Calculate $\text{Sum}=\text{sum}+k$
- (iv) Calculate $k=k+1$
- (v) If $k \leq 100$ goto step (iii)
- (vi) Print the value of sum
- (vii) stop

Examples – Algorithm & Flowchart

5. Develop an Algorithm to find the average of 5 numbers and convert it into Flowchart.

Step 1. Initialize SUM = 0
Step 2. For 5 numbers
Step 3. Read number
Step 4. Add the number to SUM
Step 5. Any more number?
Step 6. If YES Goto Step 2
No AVG = SUM / 5
Write AVG

Stop

