# ALGORITHM & FLOWCHART MANUAL for STUDENTS
## Part (1)

## Algorithm in Programming:

In programming, algorithm is a set of well-defined instructions in sequence to solve the problem.

## HOW TO WRITE ALGORITHMS:

**Step 1** **Define your algorithms input**: Many algorithms take in data to be processed, e.g. to calculate the area of rectangle input may be the rectangle height and rectangle width.

**Step 2** **Define the variables**: Algorithm's variables allow you to use it for more than one place. We can define two variables for rectangle height and rectangle width as HEIGHT and WIDTH (or H & W). We should use meaningful variable name e.g. instead of using H & W use HEIGHT and WIDTH as variable name.

**Step 3** **Outline the algorithm's operations**: Use input variable for computation purpose, e.g. to find area of rectangle multiply the HEIGHT and WIDTH variable and store the value in new variable (say) AREA. An algorithm's operations can take the form of multiple steps and even branch, depending on the value of the input variables.

**Step 4** **Output the results of your algorithm's operations**: In case of area of rectangle output will be the value stored in variable AREA. if the input variables described a rectangle with a HEIGHT of 2 and a WIDTH of 3, the algorithm would output the value of 6.

## Flowchart:

**Flowchart** is diagrammatic /Graphical representation of sequence of steps to solve a problem. To draw a flowchart following standard symbols are use

| Symbol | Purpose | Description |
|---|---|---|
| ———► | Flow line | Used to indicate the flow of logic by connecting symbols. |

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