PROBLEM SOLVING PROCESS

Class IX

lab 6

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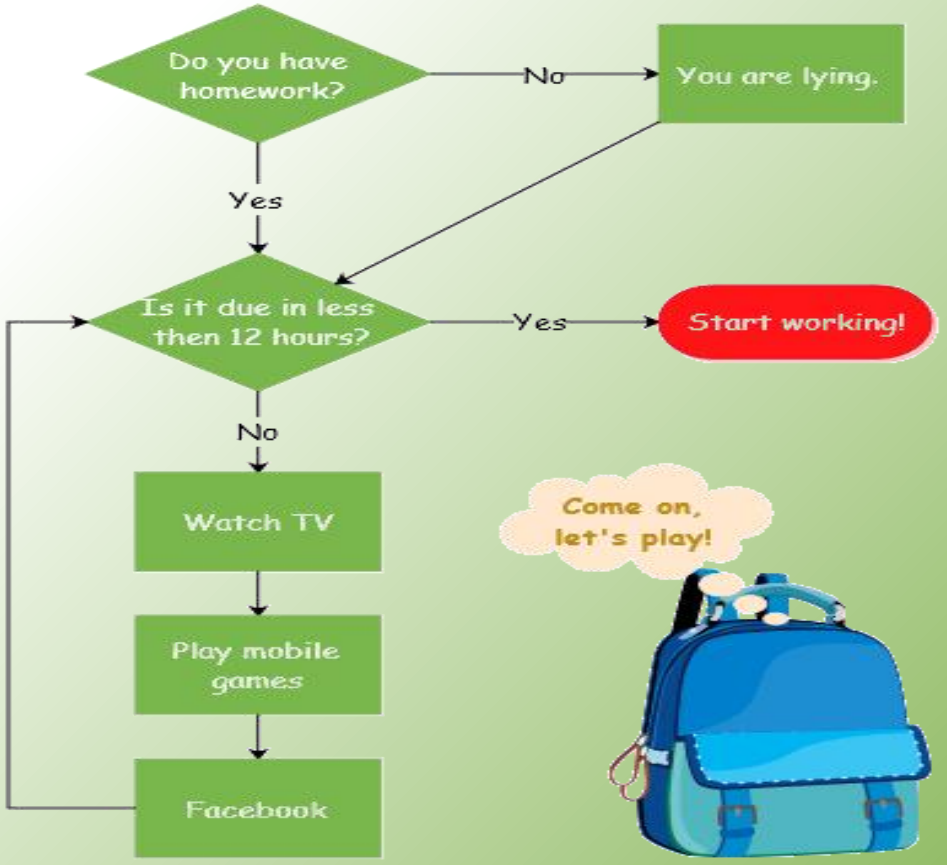
Flowchart

Flowcharts are used in analyzing, designing, documenting or managing a process or program



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Flowchart Symbols

Flowcharts are used to illustrate algorithms in order to aid in the visualisation of a program. Flowcharts are to be read top to bottom and left to right in order to follow an algorithms logic from start to finish. Below is an outline of symbols used in flowcharts.

Terminator

Terminator
Used to represent the Start and end of a program with the Keywords BEGIN and END.

Process

Process
An instruction that is to be carried out by the program.

Arrow
Indicates the flow of the algorithm pathways.

Decision

Decision
Used to split the flowchart sequence into multiple paths in order to represent SELECTION and REPETITION.

Input / Output

Input / Output
Used to represent data entry by a user or the display of data by the program.

Subprogram

Subprogram
References another program within the program.

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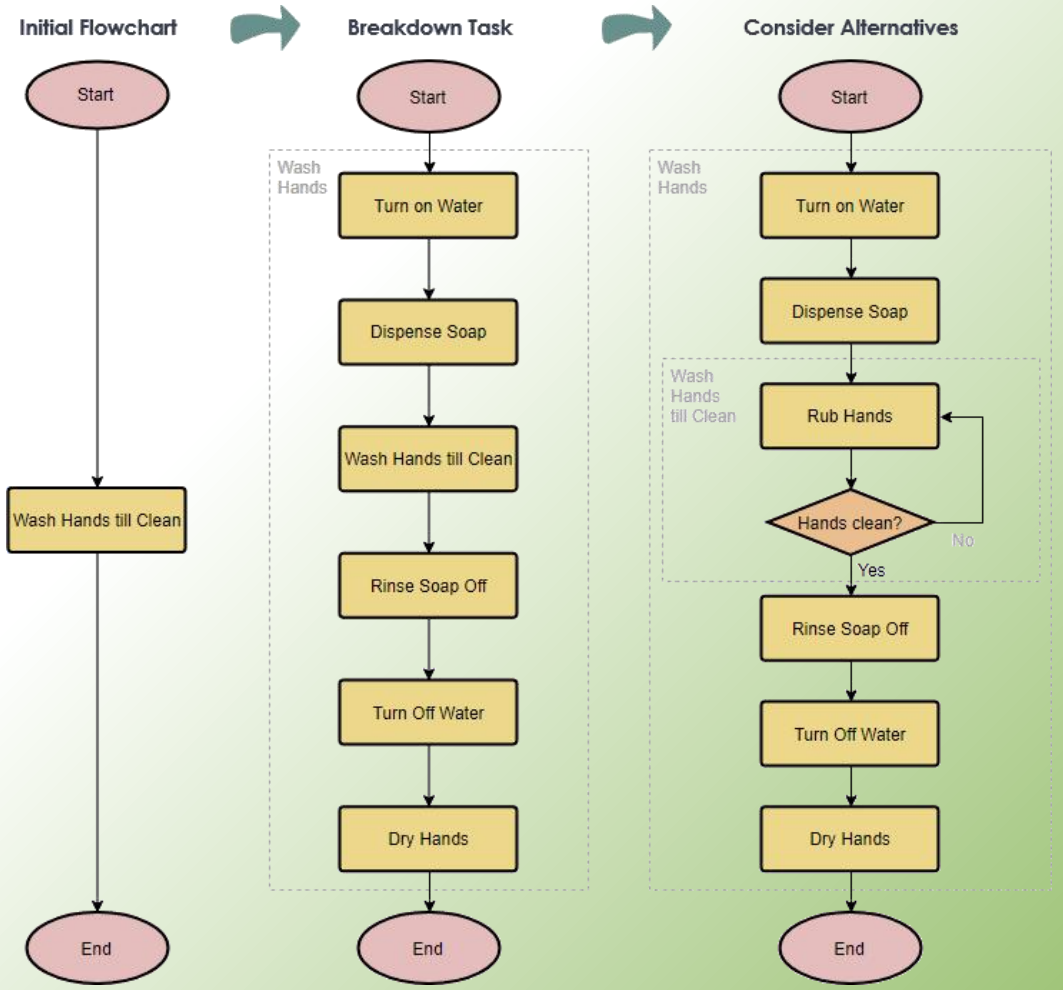
Hand Washing Example



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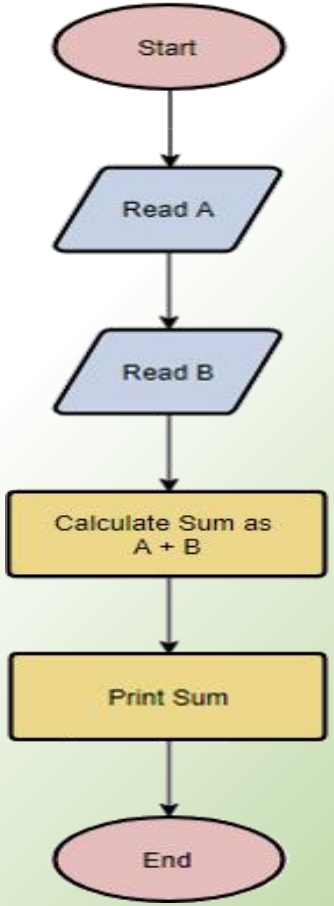
Simple Algorithms

Find the sum of 529 and 256



Start

A = 529

B = 256

Sum = 529 + 256

Sum = 785

End

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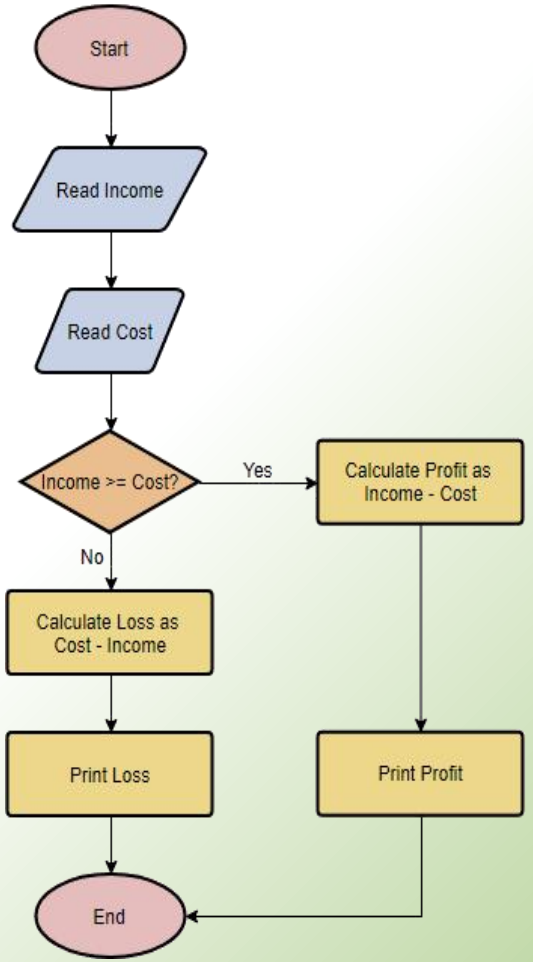
Calculate Profit and Loss



Find the profit/loss when income = 1,000, cost = 800

Start

Income = 1,000

Cost = 800

1,000 > 800? (Yes) Profit = 1,000 - 800

Profit = 200

End

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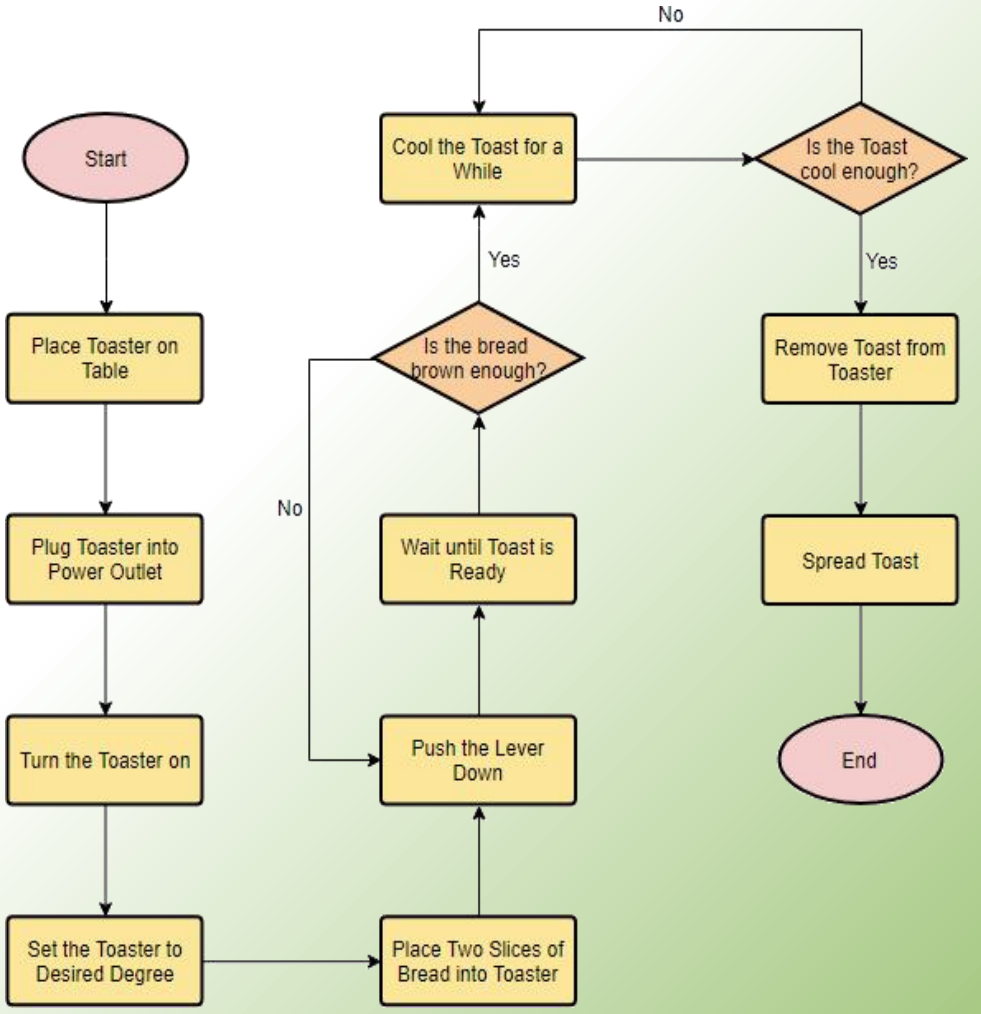
Make a Toast



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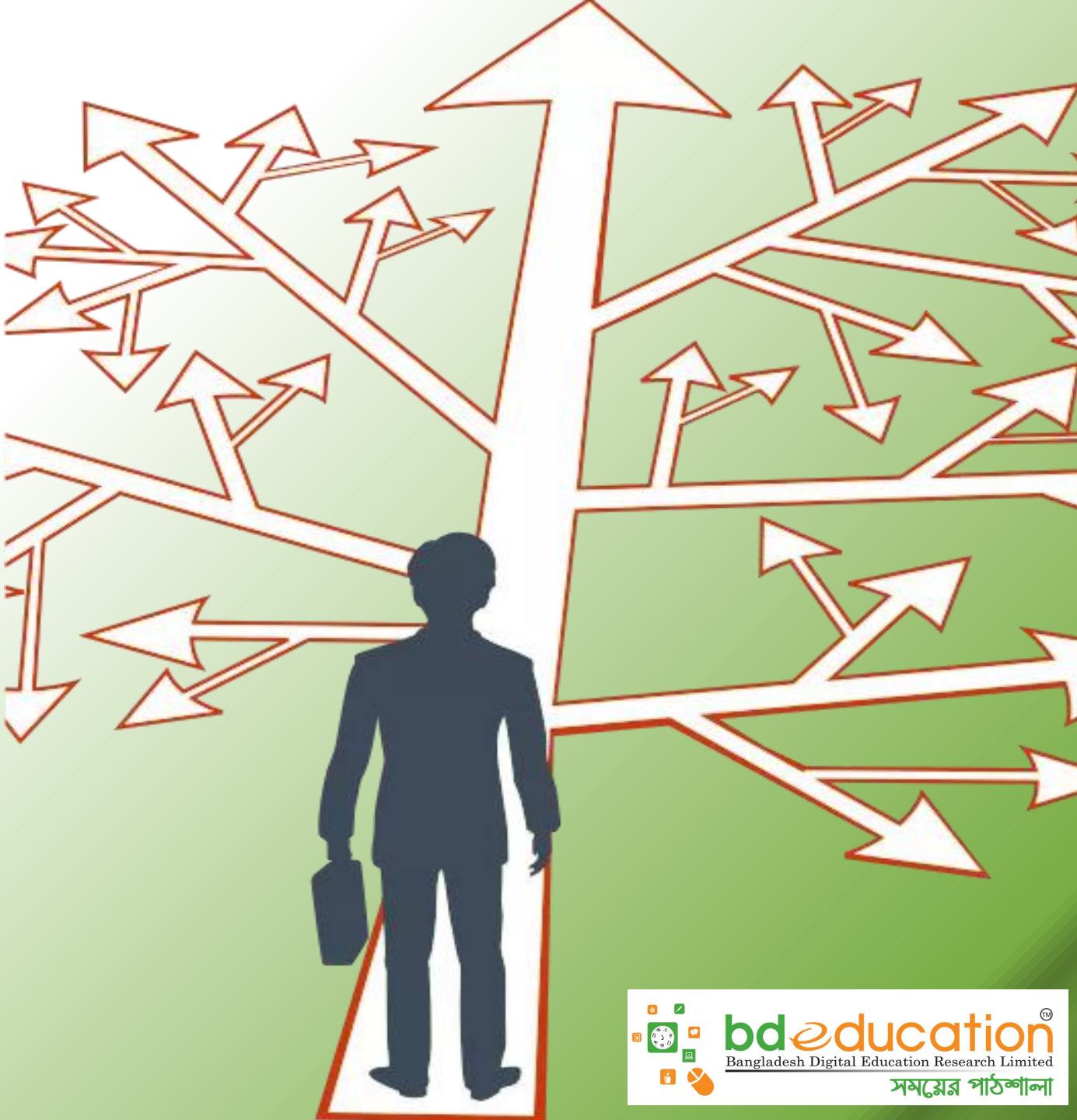

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