
PROBLEM SOLVING AND PYTHON PROGRAMMING

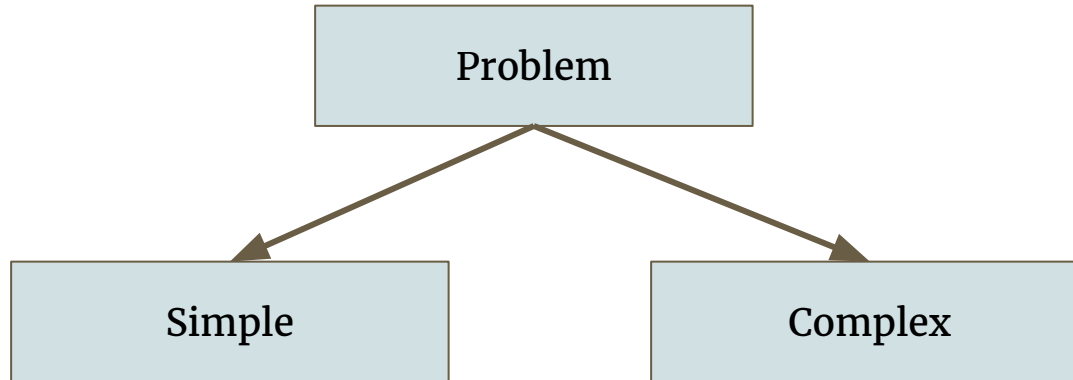
— Rajasekaran AP/IT —

Introduction to Problem

— Rajasekaran AP/IT —

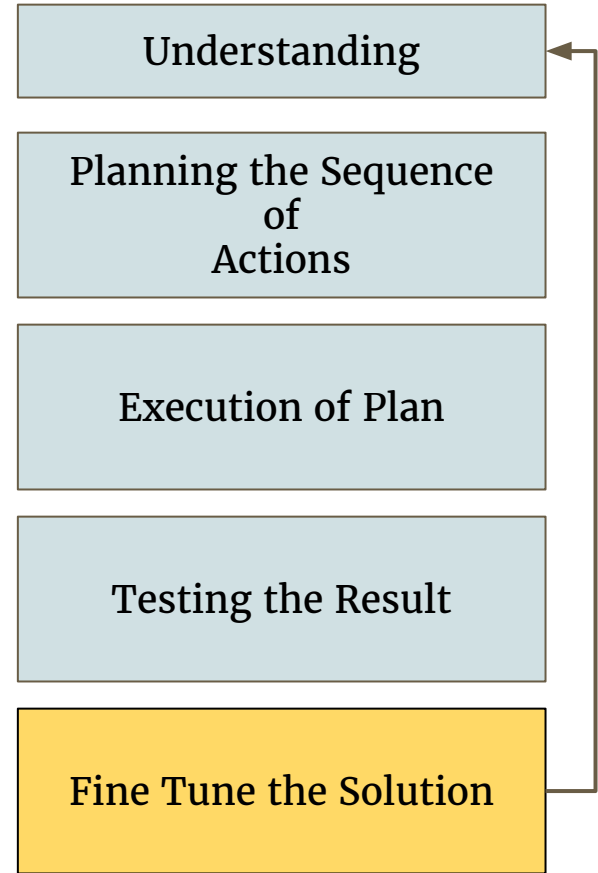
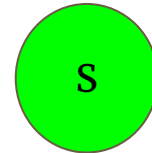
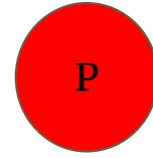
Problem Solving

The process of finding solutions to difficult or complex issues.

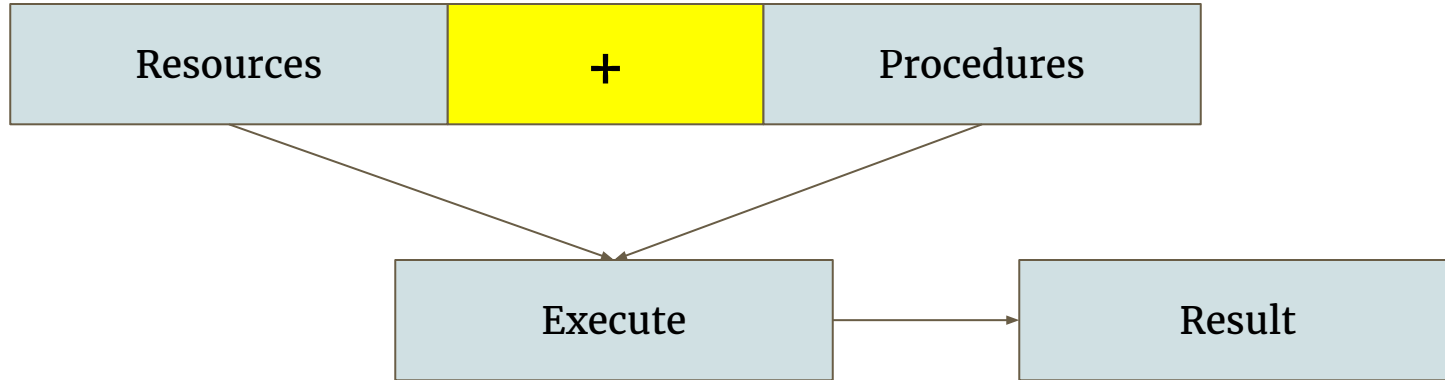


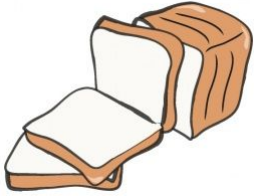
Solution to the problem

Steps involved when solving the problem

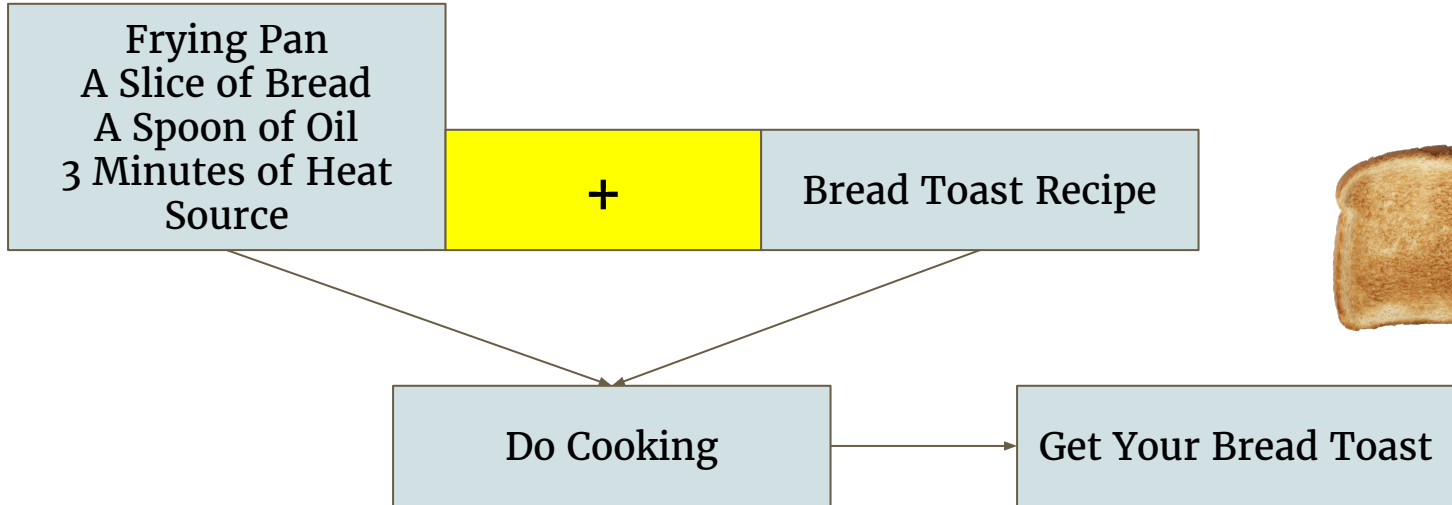


Recipe to the Solution





Cook a Crunchy Bread Toast for You



Procedure to Make Bread Toast

Step 1 : Grab a loaf of bread.

Step 2 : Get a pan and place it on the stove let it heat.

Step 3 : Pour some oil on the pan and wait for oil to be heated.

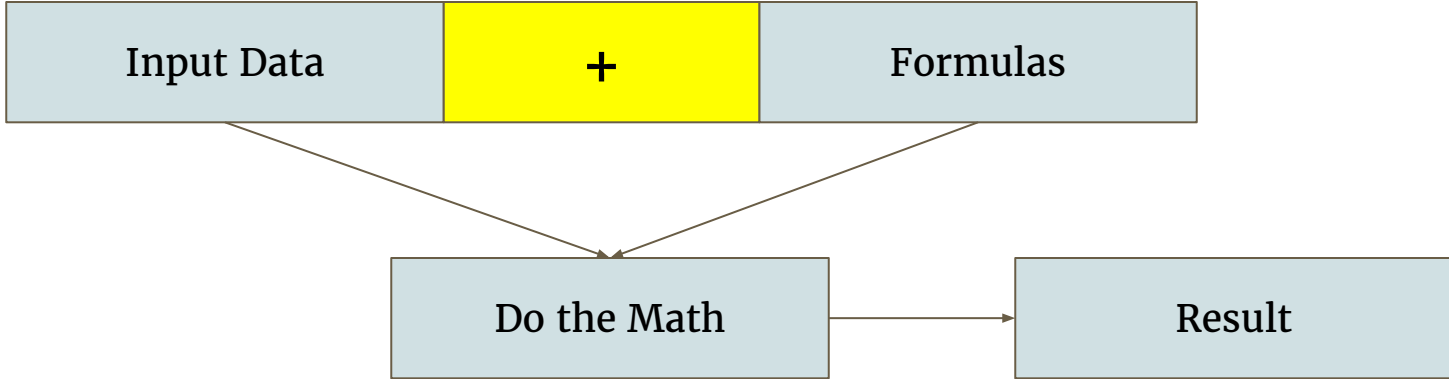
Step 4 : Put a slice on the pan and roast until it become brown in shade.

Step 5 : Turn the slice and roast until it become brown in shade.

Step 5 : Get the toasted bread from the pan and serve it.

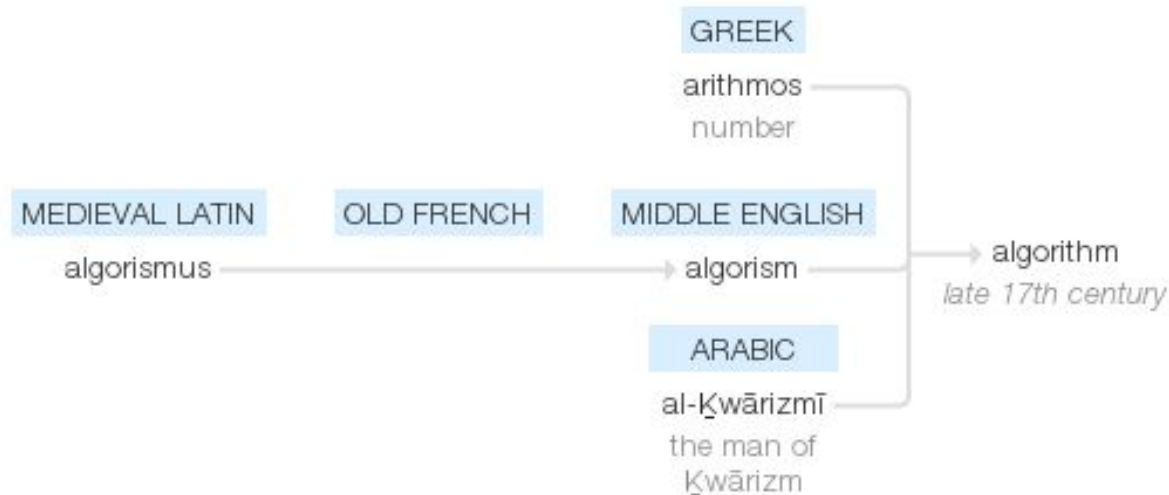
Step 6: Turn off the heat source.

If a problem comes from mathematics then what we need to do?



Mathematically the Procedures is

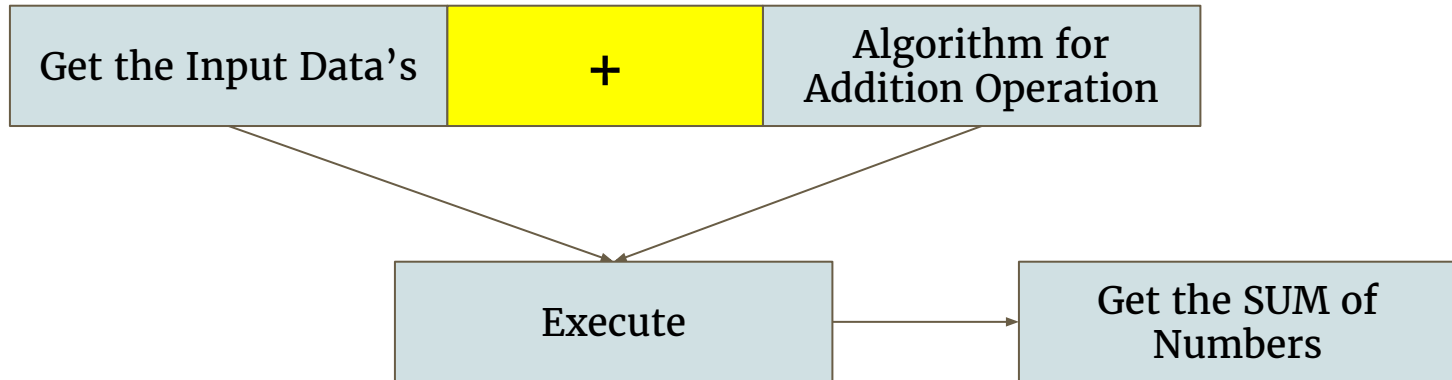
Algorithm



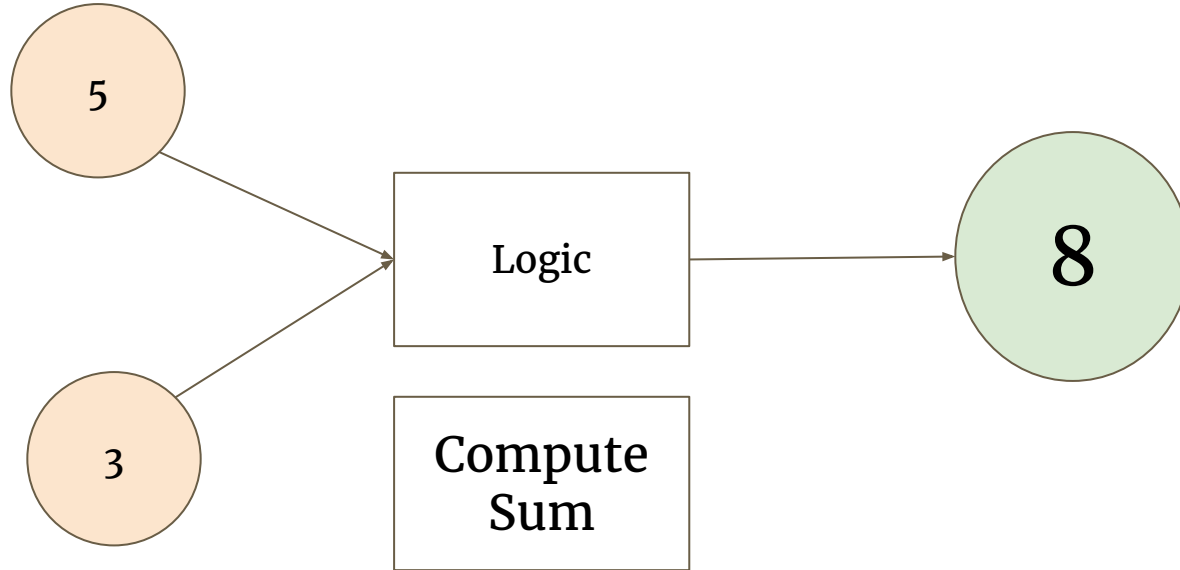
Algorithm

- ❖ A finite set of unambiguous instructions performed in a prescribed sequence to achieve a goal, especially a mathematical rule or procedure used to compute a desired result.
- ❖
- ❖
- ❖
- ❖ Algorithms are the basis for most computer programming.

Simple Mathematical Problem



Simple Mathematical Problem



Addition Algorithm Human Version

Step 1 : Get 2 inputs.

Step 2 : Perform addition.

Step 3 : Get the Result.

Addition Algorithm Computer Version

Step 1 : Get 1st Input and store.

Step 2 : Get 2nd Input and store.

Step 3 : Grab the stored value and perform the addition logic.

Step 4 : Compute the result.

Step 5 : Store the result.

Step 6 : Display the result and exit