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Input/Output

Learning Objective(s)

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This material should address the following question(s).

> What are the importance of input-output?

> How to accept input and send output?

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Discussion Point

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User-Solution **Interaction**:
The Core Concepts.

User-Solution Interaction

input →
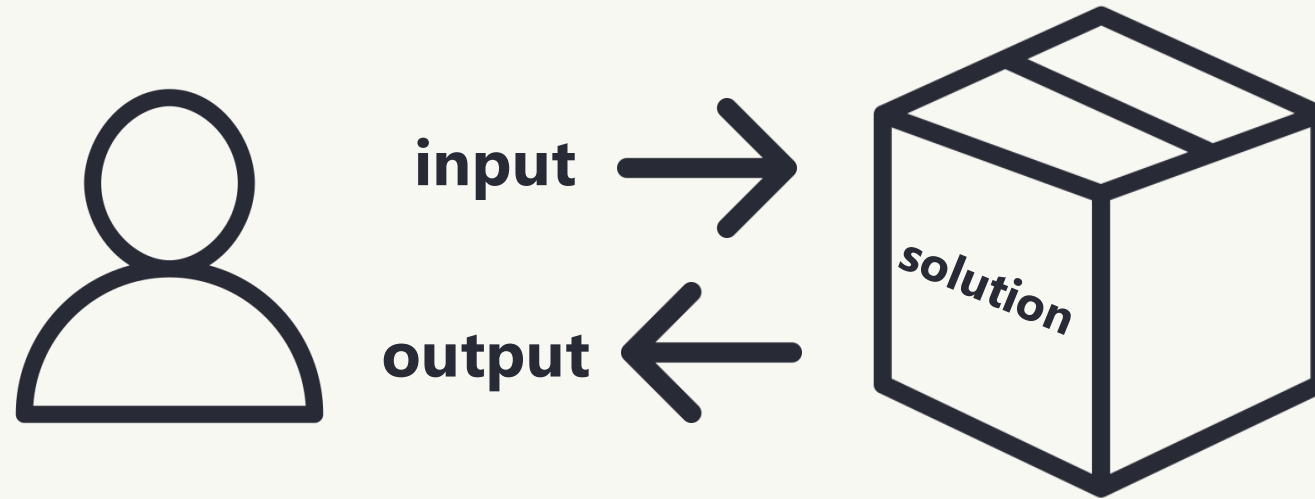
← **output**

solution

The user-solution interaction is natural.
Sometimes, the user has the **control** over the solution's behavior by providing inputs.
Based on the given inputs, the solution then produces **outputs** and
send them back to the user.

Accepting Input

- Input is a way for a user to pass values into the solution.
  - The solution then does it job based on the given inputs.

- Captured through devices:
  - Textual values from keyboard;
  - Images from sensors;
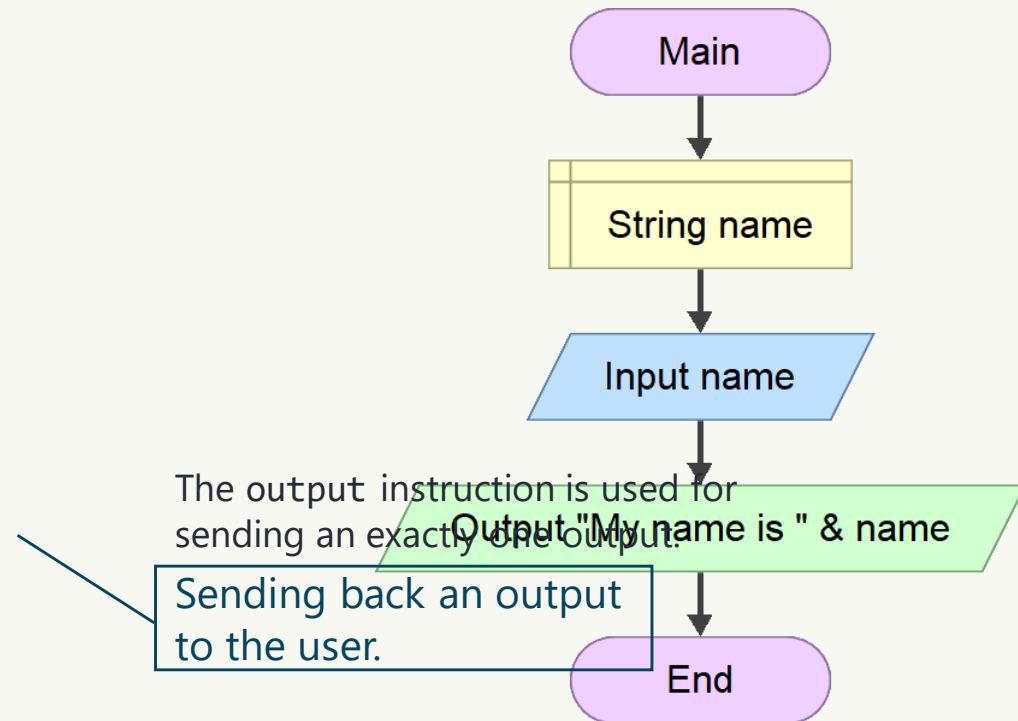 - etc.

Sending Output

- Output is a way for a solution to send the results it produces.

- Presented in many forms:
  - Textual values via display;
  - Files or printed forms;
  - etc.

Input/Output in Flowgorithm

Accepting an input from the user and temporarily store it into the name variable.

The `input` instruction is used for reading an exactly one input.

The output instruction is used for sending an exactly one output.

Sending back an output to the user.

Main

String name

Input name

Output "My name is " & name

End

Final **Thoughts.**

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Conclusion

1. The interaction between a user and a solution is natural.
   - It is even necessary to control how the solution should behave.
2. Input is a way for the user to pass values into the solution, and output is similar but in the opposite direction.

References

Wassberg, J. (2020). Computer Programming for Absolute Beginners. Packt.

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