Flowcharts

COMP16321 – Introduction to Programming 1

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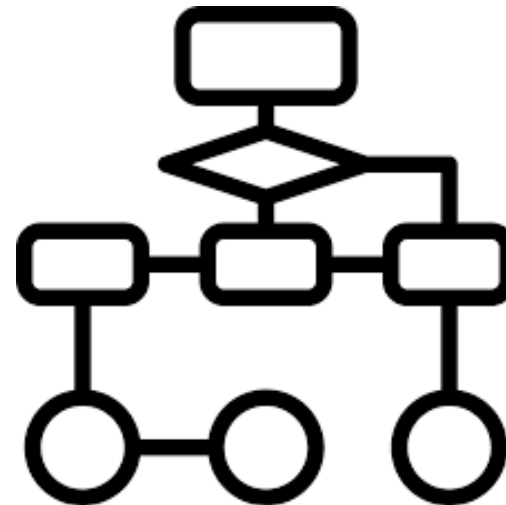
Flowcharts

Represents an:
- Algorithm
- Workflow
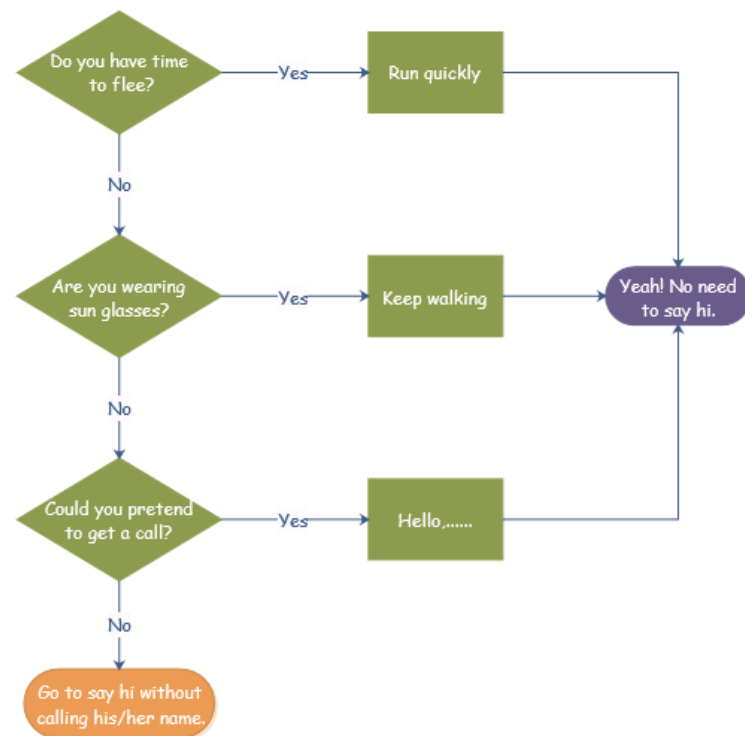- Process

Used for:
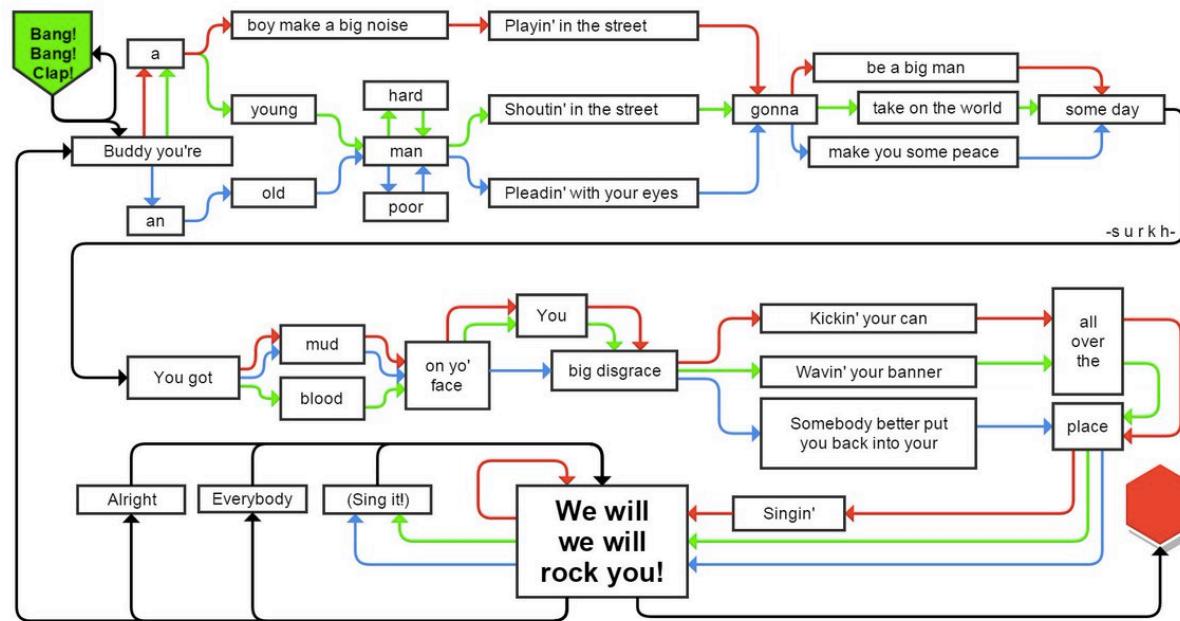- Analysing
- Designing
- Documenting

Flowcharts

Should I say hi when
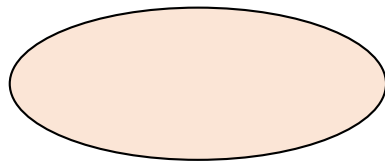I forget the person's name?

```
Do you have time        ──Yes──   Run quickly ──────────┐
to flee?                                                │
    │                                                   │
    No                                                  │
    │                                                   ▼
Are you wearing         ──Yes──   Keep walking ──▶  Yeah! No need
sun glasses?                                        to say hi.
    │                                                   ▲
    No                                                  │
    │                                                   │
Could you pretend       ──Yes──   Hello,....... ────────┘
to get a call?
    │
    No
    │
Go to say hi without
calling his/her name.
```
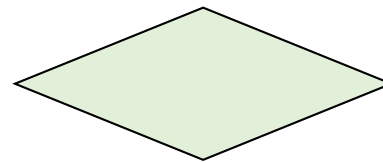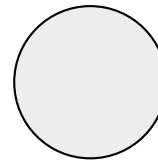
Flowcharts

Basic Symbols

Terminal

Decision

Input / Output

Connectors

Processing

Flow Lines

Flowchart: Input two numbers from user and display the sum.

Start → 2 nums → Sum both nums → Print sum → End

Start — Terminal

2 nums — Input

Sum both nums — Process
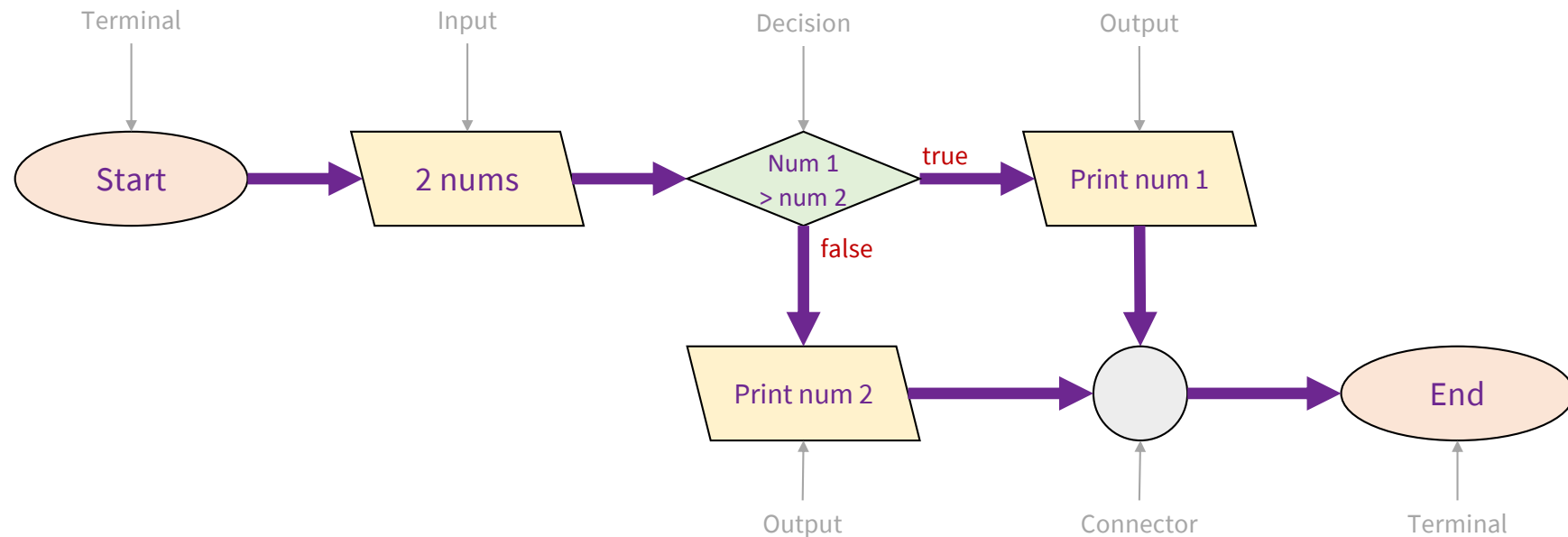
Print sum — Output

End — Terminal
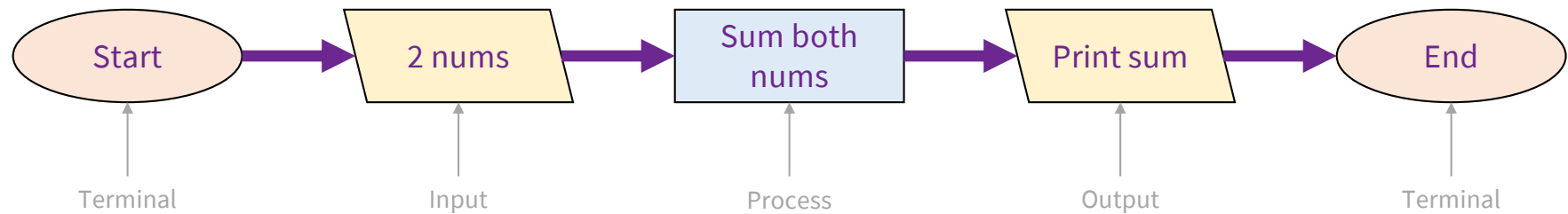
Flowchart: Input two numbers from user and display the largest of the two.

Terminal → Start

Input → 2 nums

Decision → Num 1 > num 2

Output → Print num 1

true

false

Output → Print num 2

Connector

Terminal → End

Flowchart: While hungry eat.

Terminal

Input

Decision

Start

Hunger level

Hungry ?

true

false

eat

Process

End

Terminal