



PART - 2

PROBLEM SOLVING TECHNICS

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what is an Algorithm?

- A list of instructions, used to solve problems by understanding the alternatives
- In simple words, any step-by-step process that is completed the same way every time is an algorithm

Example in everyday life :

- Following a recipe
- Finding book in library

Example for algorithm:

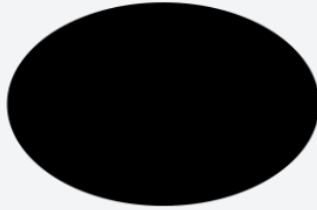
- Step-1: Start
- Step-2: Take A,B
- Step-3: Sum $A+B$
- Step-4: Print Sum
- Step-5: Stop

What is a Flow Chart?

- The steps of a process in sequential order
- These are represented in 2-Dimensional shapes to understand clear flow

Different shapes used in flowchart:

Oval



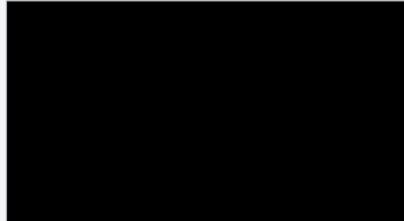
Terminator(Start/end)

Parallelogram



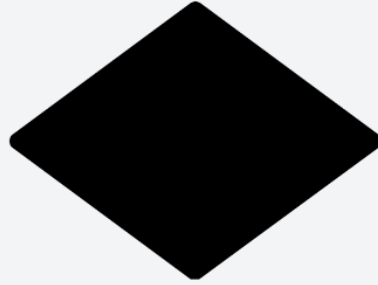
Input/output

Rectangle



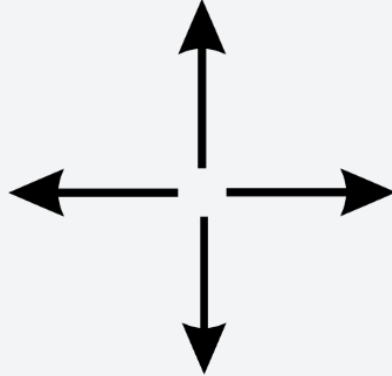
Processing(used for
arithmetic operations)

Diamond



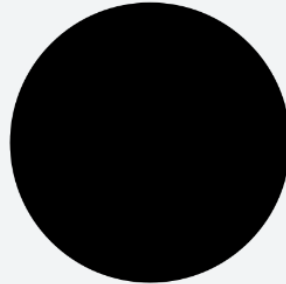
Decision-Making

Arrows

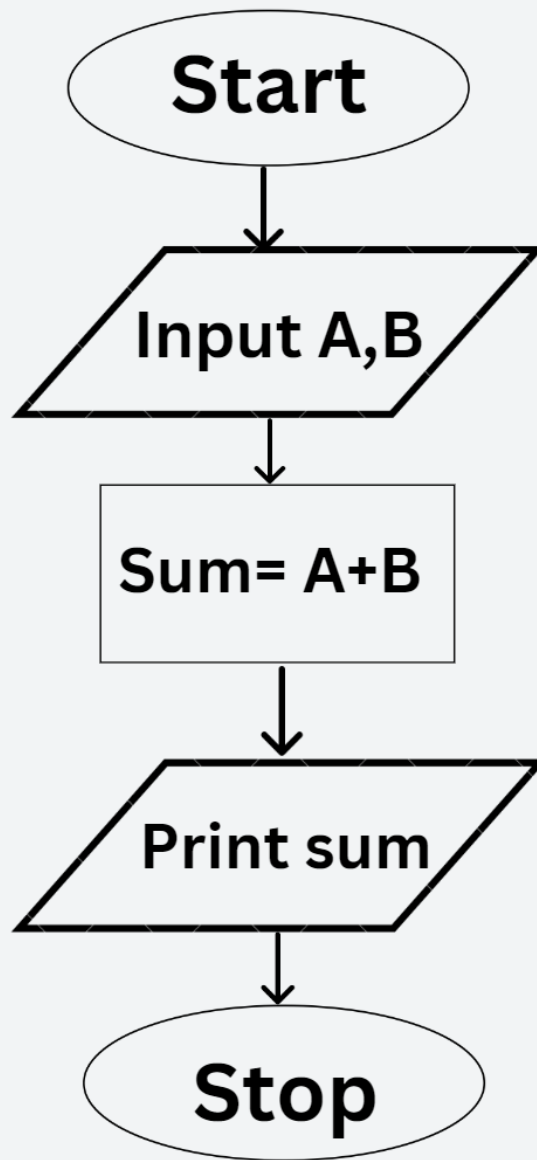


**Used to represent flow
of the logic**

Circle



**Used as page
connector**



What is a pseudo code?

- Pseudocode is a high-level representation, used to describe the steps of an algorithm or program logic

Example for pseudo code:

```
int A,B,sum;
```

```
sum=A+B;
```

```
System.out.println("Sum of digits: " + sum);
```


**Thank
You**