Flow-chart

[0:00] - [1:00]

Symbol	Name	Function
	Terminal	An oval represents a start or an ending
	Arrows	A line is a connector that shows relationships between the representative shapes
	Input/Output	A parallelogram represents input or output
	Process	A rectangle represents a process
	Decision	A diamond indicates a decision

Short Gatecheck Questions

- Flowchart is a diagram made up of various symbols and different directions to show the sequence of a process.
- Flowchart is a diagram made up of various symbols and different directions to show the sequence of a process.
- Design a flowchart to swap two numbers using a third variable.
- Design a flowchart to find the sum of digits of a number.
- Draw a flowchart to print a Fibonacci series.
- Draw a flowchart to find the area of a circle.

Add Two Nos.

Start → R(a,b) → c=a+b → print(c) → end

Swap 2 nos

P Q

$S1: P=Q$

$S2: Q=P$

$S3: P=Q$

Start → R(a,b) → temp=a → a=b → b=temp → print(a,b) → end

Sum of digits

Start → R(n) → $S1: S=0$ → $S2: S=S+n\%10$ → $n=n/10$ → print(S) → end

Fibonacci

Start → R(n) → a=0, b=1 → print(a,b) → c=a+b → a=b → b=c → print(c) → end

Area of circle

Start → R(r) → a=3.14*r*r → print(a) → end

Swap 2 nos

Start → R(a,b) → temp=a → a=b → b=temp → print(a,b) → end

Max of 3 nos

Start → R(a,b,c) → a>b? (YES: a>c? (YES: print(a) → end; NO: print(c) → end); NO: b>c? (YES: print(b) → end; NO: print(c) → end))

Max of 2 nos

Start → R(a,b) → a>b? (YES: print(a) → end; NO: print(b) → end)

Sum of digits

Start → R(n) → S=0 → n>0? (YES: S=S+n%10 → n=n/10 → print(S) → end; NO: print(S) → end)

Fibonacci

Start → R(n) → a=0, b=1 → print(a,b) → c=a+b → a=b → b=c → print(c) → end

Area of circle

Start → R(r) → a=3.14*r*r → print(a) → end

Swap 2 nos

Start → R(a,b) → temp=a → a=b → b=temp → print(a,b) → end

Max of 3 nos

Start → R(a,b,c) → a>b? (YES: a>c? (YES: print(a) → end; NO: print(c) → end); NO: b>c? (YES: print(b) → end; NO: print(c) → end))

Max of 2 nos

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Sum of digits

Start → R(n) → S=0 → n>0? (YES: S=S+n%10 → n=n/10 → print(S) → end; NO: print(S) → end)

Fibonacci

Start → R(n) → a=0, b=1 → print(a,b) → c=a+b → a=b → b=c → print(c) → end

Area of circle

Start → R(r) → a=3.14*r*r → print(a) → end