Activity I

Find the smallest of the following numbers using flow chart presented in slide number 16.
$X_1=24$, $X_2=35$, $X_3=17$, $X_4=63$, $X_5=37$

Initialization

Round 1

Round 2

Round 3

Round 4

Round 5

ANSWER=

Name: **Class:**   **Div:**   **Roll. No:**

Activity II

Find the smallest of the numbers in Activity I using flow chart presented in slide number 20. Compare the two approaches highlighting the difference.

Initialization

Round 1	Round 2

Round 3	Round 4

Round 5

ANSWER=_____

Name: **Class:**   **Div:**   **Roll. No:**

FInding Minimum Of the Given Numbers
Flow Chart And Simulation
Work Sheet: 06-ALG-05-WS

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Activity I

Find the smallest of the following numbers using flow chart presented in slide number 16.
$X_1=24$, $X_2=35$, $X_3=17$, $X_4=63$, $X_5=37$

Initialization
Counter=1,
Minimum=X_1=24
N=5

Round 1

Is Counter < 5?, i.e., is 1< 5 ? Yes

Counter= 1+1=2

Is X_2 < Minimum?, i.e., is 35<24? No

Round 2

Is Counter < 5?, i.e., is 2< 5 ? Yes

Counter= 2+1=3

Is X_3 < Minimum?, i.e., is 17<24? Yes

Minimum=X_3=17

Round 3

Is Counter < 5?, i.e., is 3< 5 ? Yes

Counter= 3+1=4

Is X_4 < Minimum?, i.e., is 63<17? No

Round 4

Is Counter < 5?, i.e., is 4< 5 ? Yes

Counter= 4+1=5

Is X_5 < Minimum?, i.e., is37<17? No

Round 5

Is Counter < 5?, i.e., is 5< 5 ? No

Output Minimum=17

Stop.

ANSWER= 17

Name: **Class:**   **Div:**   **Roll. No:**

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Activity II

Find the smallest of the numbers in Activity I using flow chart presented in slide number 20.

Initialization
Counter=1,
Minimum=X_1=24
N=5

Round 1

Is Counter < 5?, i.e., is 1< 5 ? Yes

Is X_2 < Minimum?, i.e., is 35<24? No

Round 2

Counter= 1+1=2

Is Counter < 5?, i.e., is 2< 5 ? Yes

Is X_3 < Minimum?, i.e., is 17<24? Yes

Minimum=X_3=17

Round 3

Counter= 2+1=3

Is Counter < 5?, i.e., is 3< 5 ? Yes

Is X_4 < Minimum?, i.e., is 63<17? No

Round 4

Counter= 3+1=4

Is Counter < 5?, i.e., is 4< 5 ? Yes

Is X_5 < Minimum?, i.e., is37<17? No

Round 5

Counter= 4+1=5

Is Counter < 5?, i.e., is 5< 5 ? No

Output Minimum=17

Stop.

ANSWER= 17

Name: Class: Div: Roll. No: