**IIG Varsity**

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Test: **IIG-Batch2-001**, Time: **2 hours**, Date: **21-10-2022**

(**Answer all questions**) Mark: 100

1. Draw a flowchart to change the content of 3 variables A, B, & C without using a 4th variable other then A, B, & C?

Initial value: A = 25, B = 45, & C = 65

Changed value: A = 65, B = 25, & C = 25

1. Draw a flowchart to sum 10 numbers in the fibonacci 25, 35, …….?
2. Draw a flowchart to sum 18 numbers in the series, 1, 2, 2, 4, 3, 6, 4, 8, 5, 10, ………..

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | 11th | 12th | 13th | 14th | 15th | 16th |
| 1 | 2 | 2 | 4 | 3 | 6 | 4 | 8 | 5 | 10 | ? | ? | ? | ? | ? | ? |

First number: 1 x 1 = 1 Sixth number: 3 x 2 = 6

Second number: 1 x 2 = 2 Seventh number: 4 x 1 = 4

Third number: 2 x 1 = 2 Eighth number: 4 x 2 = 8

Forth number: 2 x 2 = 4 Ninth number: 5 x 1 = 5

Fifth number: 3 x 1 = 3 Tenth number: 5 x 2 = 10

1. Draw a flowchart to print all PRIME numbers between 2500 to 3500?

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