

SARALA BIRLA PUBLIC SCHOOL

Mahilong, Ranchi.

Revision Test (Computer Science)

Class - XI



SARALA BIRLA
PUBLIC SCHOOL

(SARALA BIRLA GROUP OF SCHOOLS)

1 . Write a program in PYTHON to calculate the series $(1) + (1+2) + (1+2+3) + (1+2+3+4) + \dots + (1+2+3+4+\dots+n)$.

Sample Output:

Input the value for nth term: 5

1 = 1

1+2 = 3

1+2+3 = 6

1+2+3+4 = 10

1+2+3+4+5 = 15

The sum of the above series is: 35

2. Write a program in PYTHON to find the sum of series $1 - X^2/2! + X^4/4! - \dots$ upto nth term.

Sample Output:

Input the value of X: 3

Input the value for nth term: 4

term 1 value is: 1

term 2 value is: -4.5

term 3 value is: 3.375

term 4 value is: -1.0125

The sum of the above series is: -1.1375

3. Write a program in PYTHON to asked user to input positive integers to process count, maximum, minimum, and average or terminate the process with -1.

Sample Output:

Your input is for termination. Here is the result below:

Number of positive integers is: 4

The maximum value is: 9

The minimum value is: 3

The average is 6.00

4. Write a program in PYTHON to list non-prime numbers from 1 to an upperbound.

Sample Output:

Input the upperlimit: 25

The non-prime numbers are:

4 6 8 9 10 12 14 15 16 18 20 21 22 24 25

5. Write a program in PYTHON to print a square pattern with # character.

Sample Output:

Print a pattern like square with # character:

Input the number of characters for a side: 4

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