1. Write a program to print all the composite numbers between a and b?

Sample Input:

A = 12

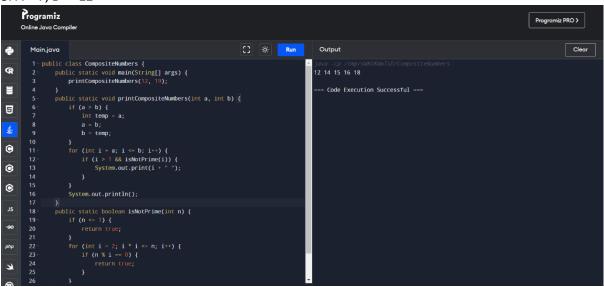
B = 19

Sample Output

14, 15, 16, 18

Test cases:

- 1. A = 11, B = 11
- 2. A = 20, B = 10
- 3. A = 0, B = 0
- 4. A = -5, B = 5
- 5. A = 7, B = -12



2. Write a program to print the numbers from M to N by skipping K numbers in between?

Sample Input:

M = 50

N = 100

K = 7

Sample Output:

50, 58, 66, 74,

Test cases:

```
1. M = 15, N = 05, K = 02
```

$$2..M = 25, N = 50, K = 04$$

3.
$$M = 15$$
, $N = 100$, $K = -02$

$$4. M = 0, N = 0, K = 2$$

```
5. M = 200 , N = 200 , K = 50
```

3. Write a program to enter the marks of a student in four subjects. Then calculate the total and aggregate, display the grade obtained by the student. If the student scores an aggregate greater than 75%, then the grade is Distinction. If aggregate is 60>= and <75, then the grade is First Division. If aggregate is 50 >= and <60, then the grade is Second Division. If aggregate is 40>= and <50, then the grade is Third Division. Else the grade is Fail.

Sample Input & Output:

Enter the marks in python: 90

Enter the marks in c programming: 91

Enter the marks in Mathematics: 92

Enter the marks in Physics: 93

Total= 366

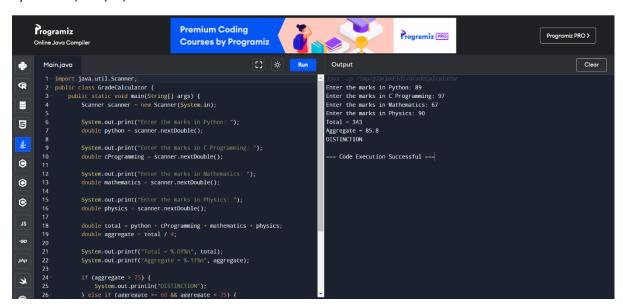
Aggregate = 91.5

DISTINCTION

Test cases:

- a) 18, 76,93,65
- b) 73,78,79,75
- c) 98,106,120,95
- d) 96,73, -85,95

e) 78,59.8,76,79



- 4. Write a program to calculate tax given the following conditions:
- a. If income is less than or equal to 1,50,000 then no tax
- b. If taxable income is 1,50,001 3,00,000 the charge 10% tax
- c. If taxable income is 3,00,001 5,00,000 the charge 20% tax
- d. If taxable income is above 5,00,001 then charge 30% tax

Sample Input:

Enter the income:200000

Sample Output:

Tax= 20000

Test cases:

- 1. 400700
- 2. 2789239
- 3. 150000
- 4. 00000
- 5. -125486