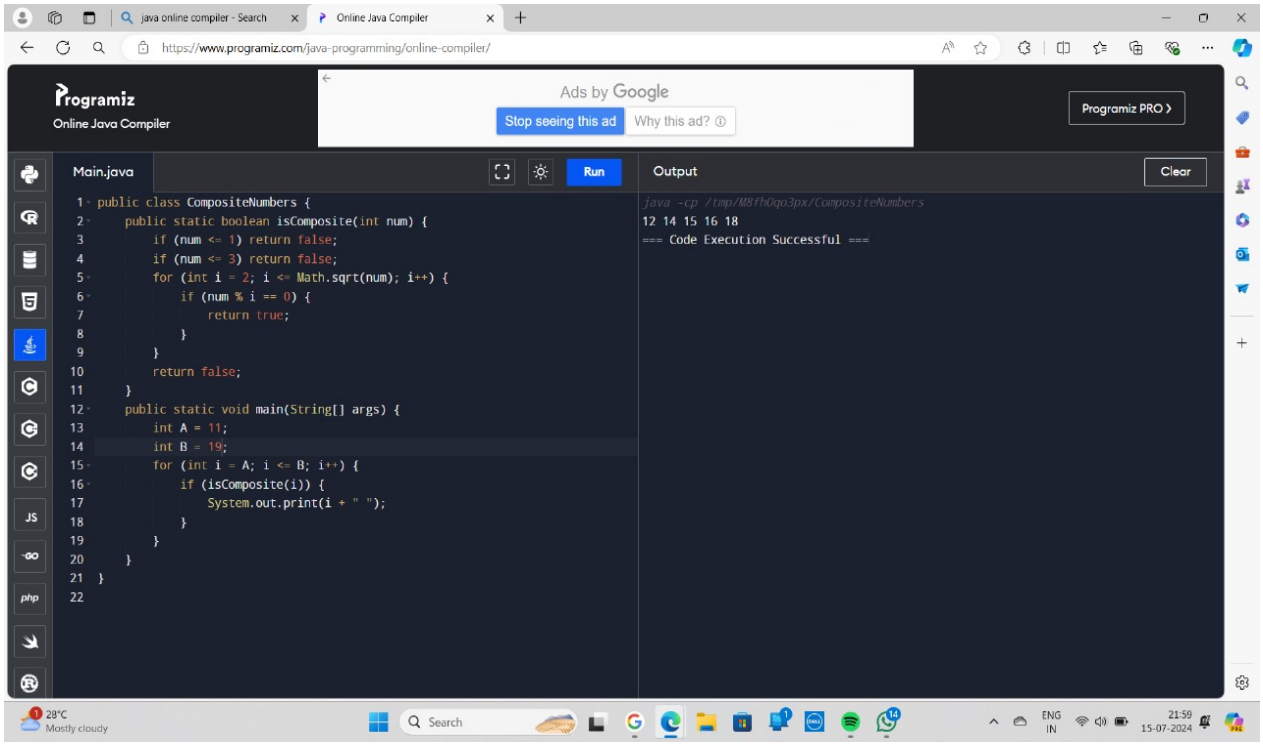
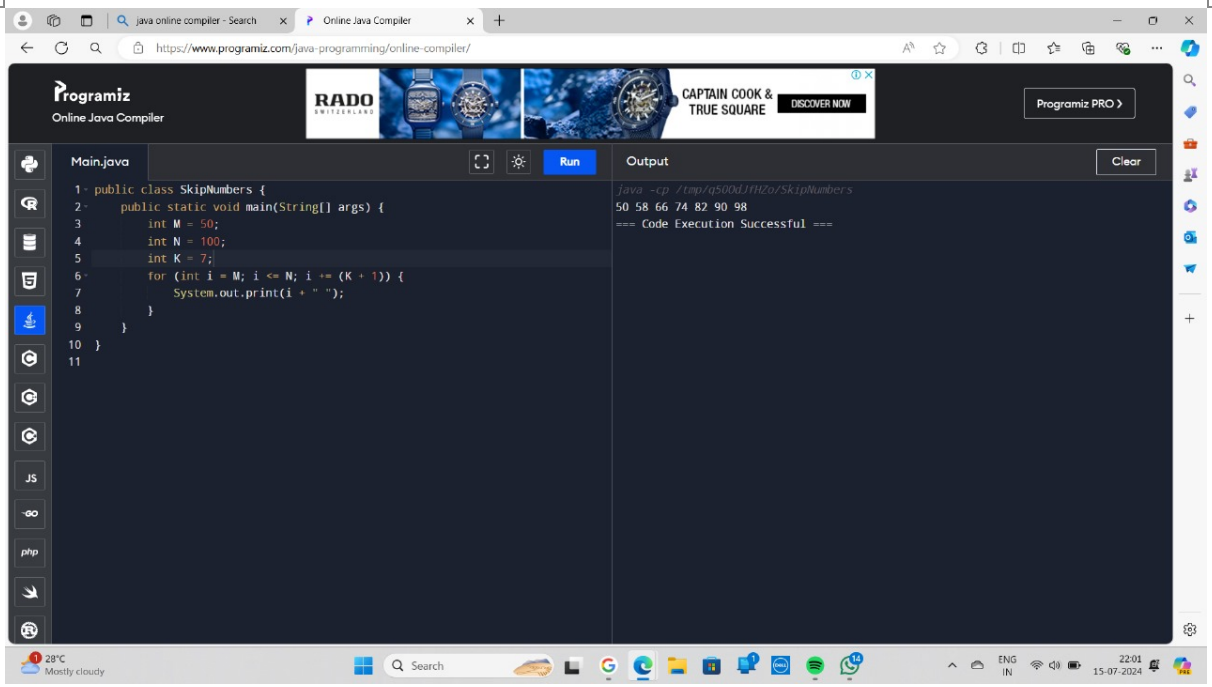
ASSIGNMENT-1

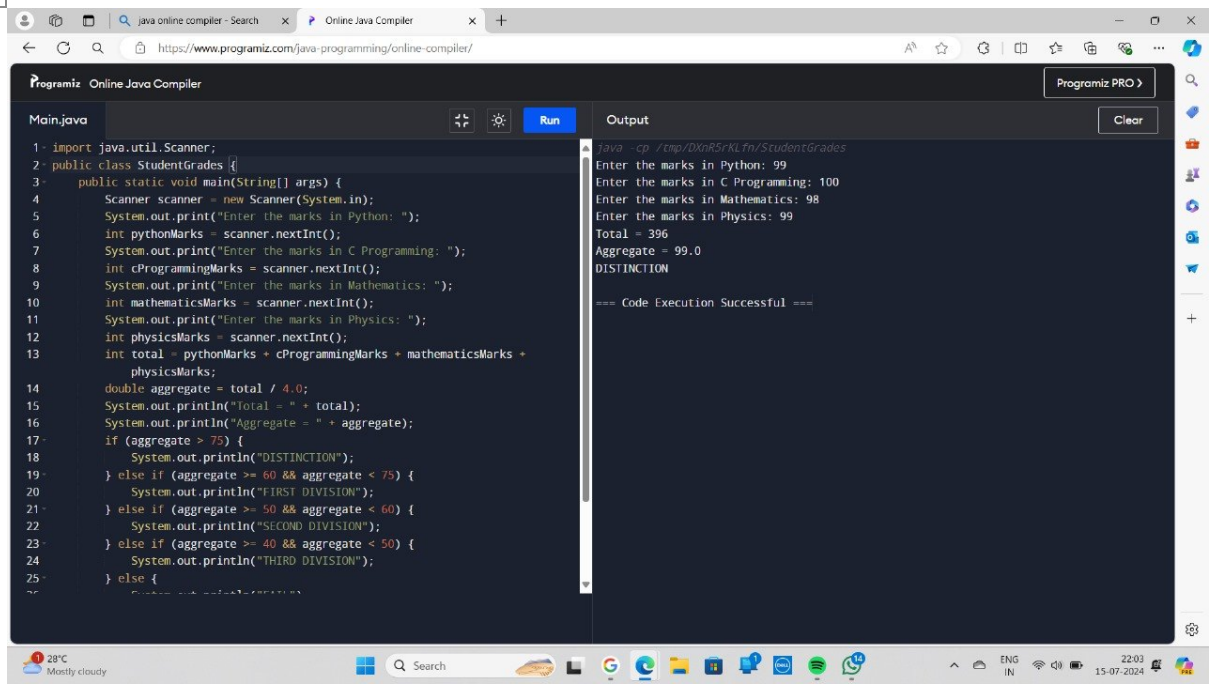
1.Write a program to print all the composite numbers between a and b?



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



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



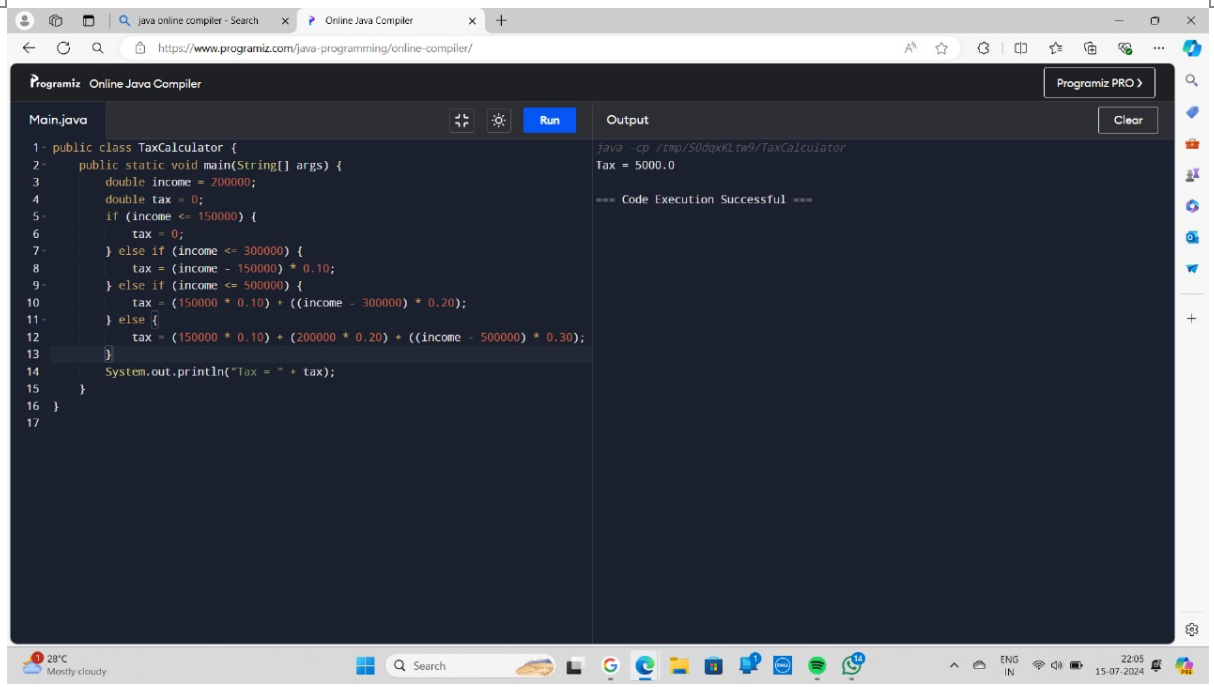
4. Write a program to calculate tax given the following conditions:

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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Main.java
Run
Output
Clear
public class TaxCalculator {
public static void main(String[] args) {
double income = 200000;
double tax = 0;
if (income <= 150000) {
tax = 0;
} else if (income <= 300000) {
tax = (income - 150000) * 0.10;
} else if (income <= 500000) {
tax = (150000 * 0.10) + ((income - 300000) * 0.20);
} else {
tax = (150000 * 0.10) + (200000 * 0.20) + ((income - 500000) * 0.30);
}
System.out.println("Tax = " + tax);
}
}
java -cp /tmp/SOdqxKLtw9/TaxCalculator
Tax = 5000.0
=== Code Execution Successful ===
28°C
Mostly cloudy
Search
ENG
IN
22:05
15-07-2024