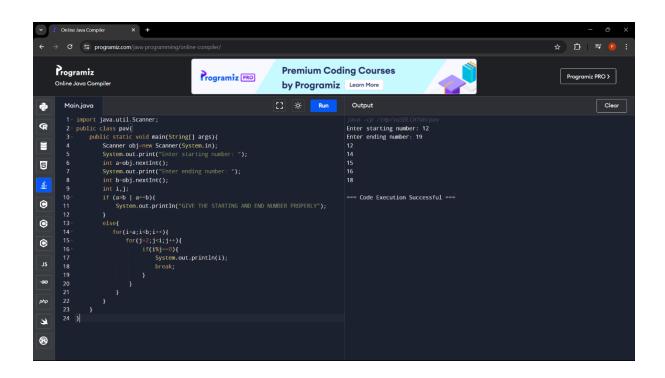
1. Write a program to print all the composite numbers between a and b?
Sample Input:
A = 12
B = 19
Sample Output
14, 15, 16, 18

## **PROGRAM CODE:**

}

```
import java.util.Scanner;
public class pav{
  public static void main(String[] args){
    Scanner obj=new Scanner(System.in);
    System.out.print("Enter starting number: ");
    int a=obj.nextInt();
    System.out.print("Enter ending number: ");
    int b=obj.nextInt();
    int i,j;
    if (a>b \mid a==b){
      System.out.println("GIVE THE STARTING AND END NUMBER PROPERLY");
    }
    else{
      for(i=a;i<b;i++){
        for(j=2;j<i;j++){
           if(i\%j==0){
             System.out.println(i);
             break;
           }
         }
      }
    }
```



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

## **PROGRAM CODE:**

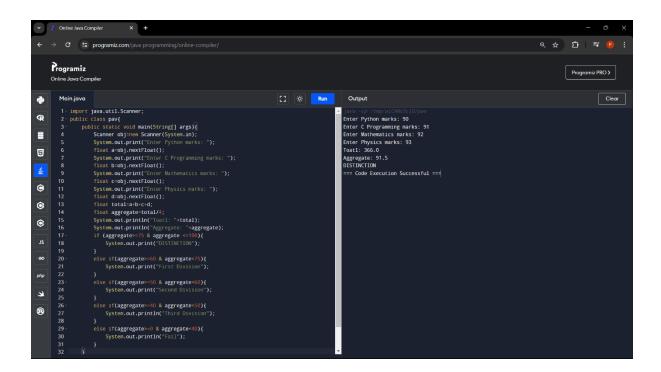
```
import java.util.Scanner;
public class pav{
   public static void main(String[] args){
       Scanner obj=new Scanner(System.in);
       System.out.print("Enter starting number: ");
       int a=obj.nextInt();
       System.out.print("Enter ending number: ");
       int b=obj.nextInt();
       System.out.print("Enter skip number: ");
       int k=obj.nextInt();
       int i;
       for(i=a;i<=b;i+=k+1){
           System.out.println(i);
       }
   }
                                               Premium Coding
      Programiz
                                                                                                             Programiz PRO
                                                                                                                                                    Programiz PRO >
                                               Courses by Programiz
                                                                                       Enter starting number: 50
Enter ending number: 100
Enter skip number: 7
50
                ic class pav{
public static void main(String[] args){
    Scanner obj=new Scanner(System.in);
    System.out.print("Enter starting number
                    int a=obj.nextInt();
System.out.print("Ento
int b=obj.nextInt();
  9
                    System.out.print("En
int k=obj.nextInt();
  0
                    for(i=a;i<=b;i+=k+1){
    System.out.println(i);</pre>
  •
                                                                                        === Code Execution Successful ===
  •
  ×
 ®
```

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.

## **PROGRAM CODE:**

```
import java.util.Scanner;
public class pav{
  public static void main(String[] args){
    Scanner obj=new Scanner(System.in);
    System.out.print("Enter Python marks: ");
    float a=obj.nextFloat();
    System.out.print("Enter C Programming marks: ");
    float b=obj.nextFloat();
    System.out.print("Enter Mathematics marks: ");
    float c=obj.nextFloat();
    System.out.print("Enter Physics marks: ");
    float d=obj.nextFloat();
    float total=a+b+c+d;
    float aggregate=total/4;
    System.out.println("Toatl: "+total);
    System.out.println("Aggregate: "+aggregate);
    if (aggregate>=75 & aggregate <=100){
      System.out.print("DISTINCTION");
    }
    else if(aggregate>=60 & aggregate<75){
      System.out.print("First Division");
    }
    else if(aggregate>=50 & aggregate<60){
      System.out.print("Second Division");
    }
```

```
else if(aggregate>=40 & aggregate<50){
    System.out.println("Third Division");
}
else if(aggregate>=0 & aggregate<40){
    System.out.println("Fail");
}
}</pre>
```



- 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

## **PROGRAM CODE:**

```
import java.util.Scanner;
public class pav{
  public static void main(String[] args){
    Scanner obj=new Scanner(System.in);
    System.out.print("Enter Income: ");
    float temp=obj.nextFloat();
    double b=0;
    if (temp>=0 & temp<=150000){
      System.out.print("NO TAX");
    else if(temp>150001 & temp<=300000){
      b=temp*0.1;
      System.out.print("Tax = "+b);
    else if(temp>300001 & temp<=500000){
      b=temp*0.2;
      System.out.print("Tax = "+b);
    else if(temp>500001){
      b=temp*0.3;
      System.out.print("Tax = "+b);
    }
  }
```

}

