THIRUPUGAZH S.R ASSIGNMENT 1 192371016

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

```
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){
```

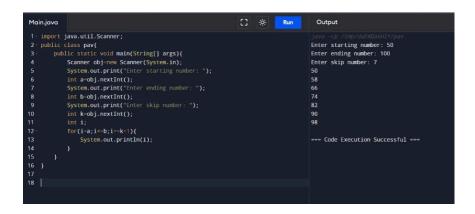
```
System.out.println(i);
break;

}
}
}
}
```

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

```
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.printIn(i);
}
}</pre>
```



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.

```
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");
    }
  }
}
```

```
Mein.jovo

1. import java.util.Scanner;
2. public class pav{
3. public staric void main(String[] args){
4. Scanner obj=new Scanner(System.in);
5. System.out.print("Enter Python marks: ");
6. float a=obj.newfloat();
7. System.out.print("Enter C Programing marks: ");
8. float b=obj.newfloat();
9. System.out.print("Enter Mathematics marks: ");
10. float c=obj.newfloat();
11. System.out.print("Enter Mathematics marks: ");
12. float d=obj.nexfloat();
13. float total=a-abv-cd;
14. float aggregate=total/s;
5 System.out.print("Enter Mathematics marks: ");
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```

- 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

```
}
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);
}
}
```

```
Mein,jave

1 - import | Java.util.Scanner;
- public class pav{
3 - public static void main(String[] args){
4 - Scanner obj-new Scanner(System.in);
5 - System.out.print("Enter Income: ");
6 - float temp-obj.nex(Float();
7 - double b-it;
9 - System.out.print("No IAX");
10 - }
11 - else if(temp-150001 & temp-=300000){
12 - b-temp+0.1;
13 - System.out.print("Tax = "+b);
14 - }
15 - else if(temp-300001 & temp-=500000){
16 - b-temp+0.2;
17 - System.out.print("Tax = "+b);
18 - }
19 - else if(temp-500001){
18 - System.out.print("Tax = "+b);
19 - system.out.print("Tax = "+b);
20 - b-temp+0.3;
21 - System.out.print("Tax = "+b);
22 - }
23 - }
24 - }
25 - System.out.print("Tax = "+b);
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27 - System.out.print("Tax = "+b);
28 - System.out.print("Tax = "+b);
```