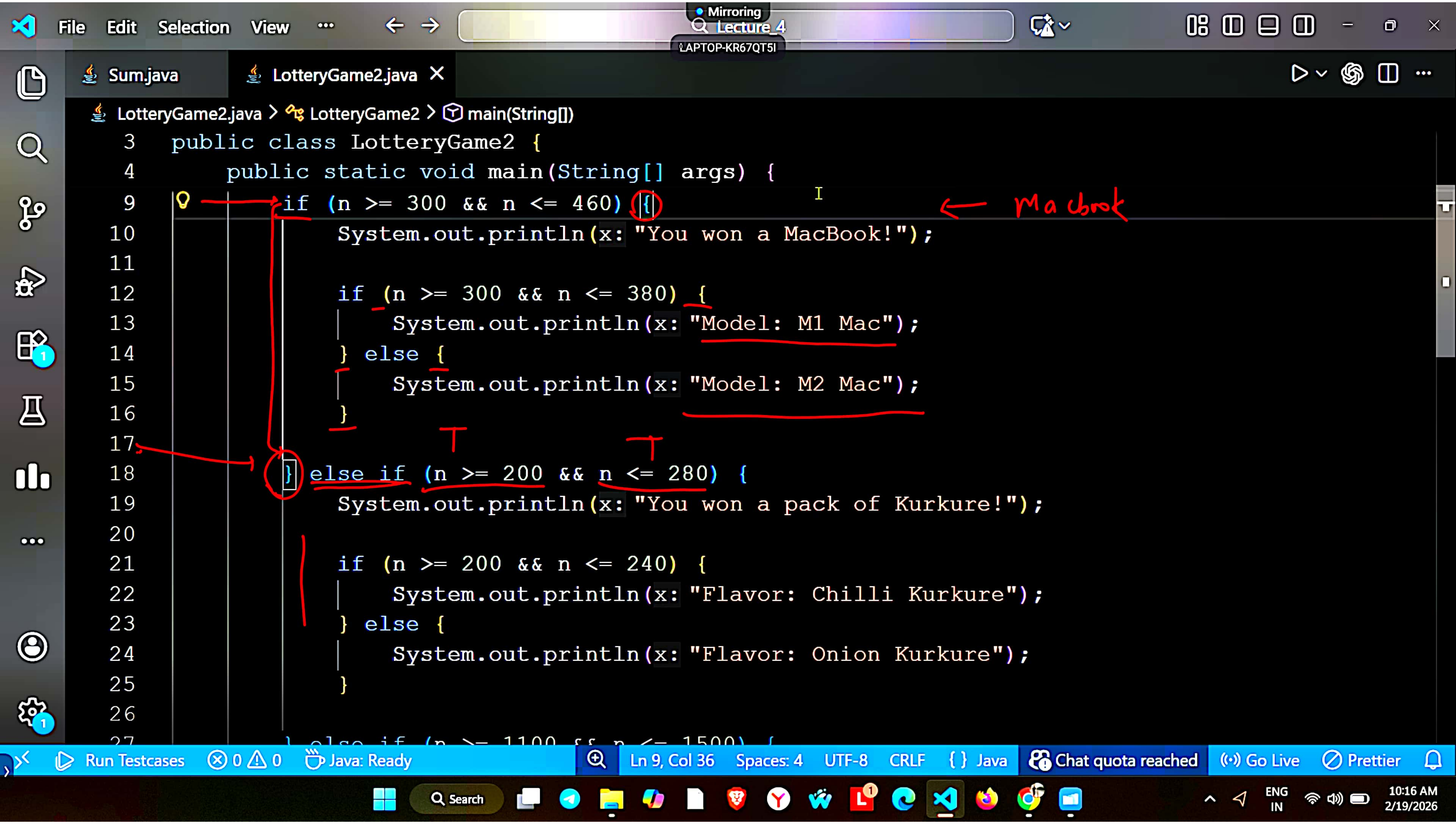
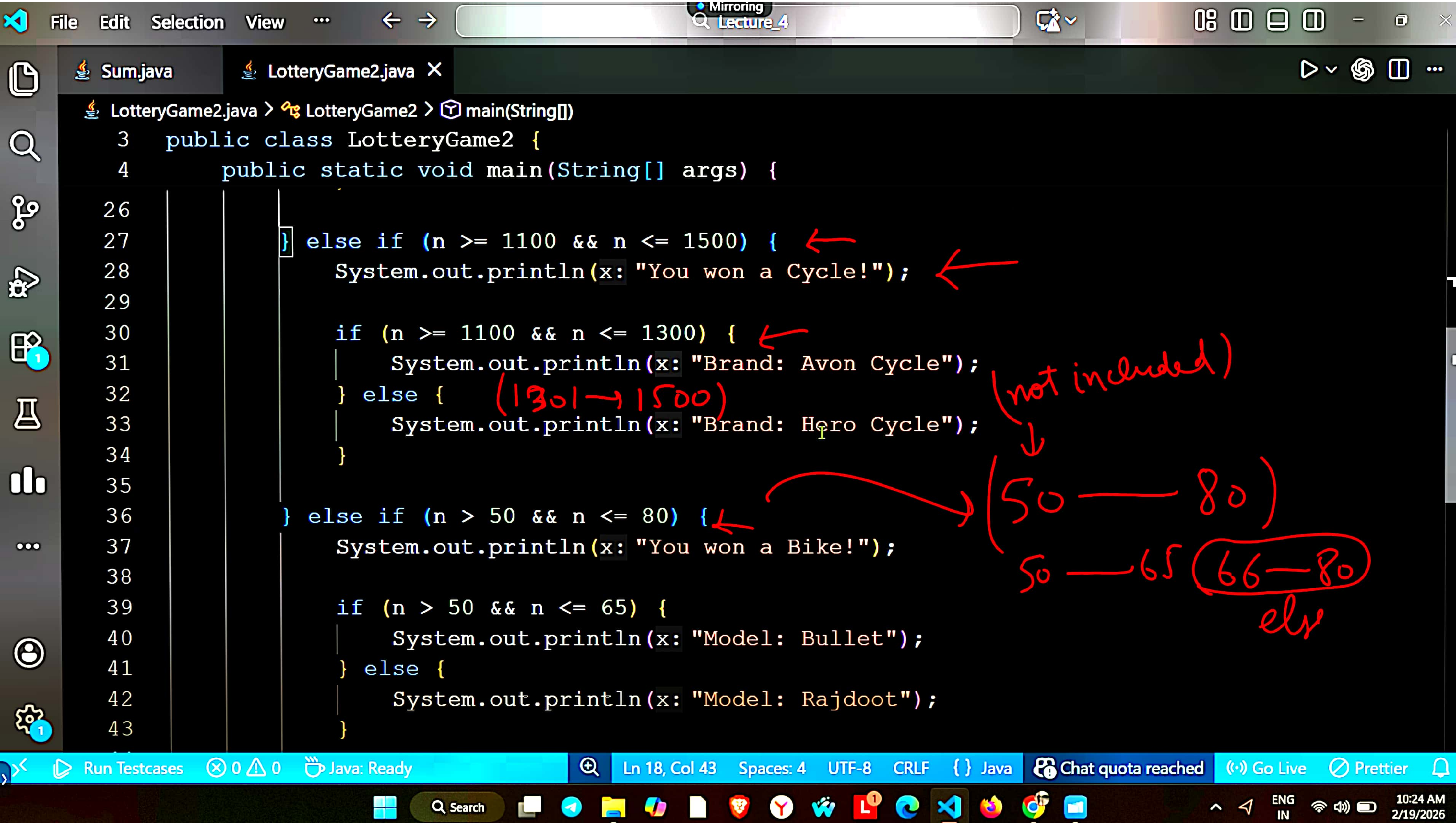
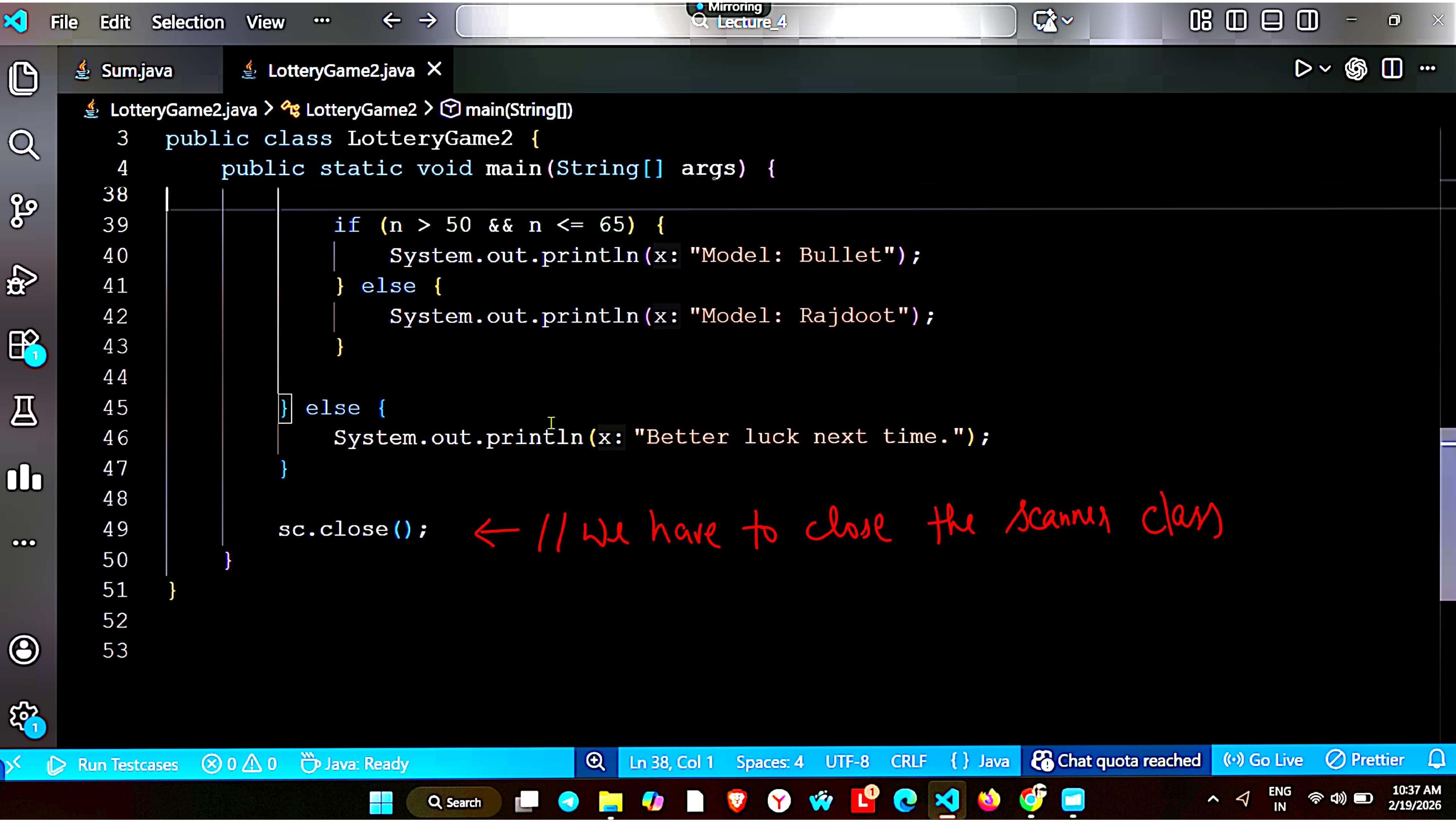


```java
public class LotteryGame2 {
    public static void main(String[] args) {
        if (n >= 300 && n <= 460) {
            System.out.println(x: "You won a MacBook!");

            if (n >= 300 && n <= 380) {
                System.out.println(x: "Model: M1 Mac");
            } else {
                System.out.println(x: "Model: M2 Mac");
            }

        } else if (n >= 200 && n <= 280) {
            System.out.println(x: "You won a pack of Kurkure!");

            if (n >= 200 && n <= 240) {
                System.out.println(x: "Flavor: Chilli Kurkure");
            } else {
                System.out.println(x: "Flavor: Onion Kurkure");
            }

        } else if (n >= 1100 && n <= 1500) {
```

T T



```java
public class LotteryGame2 {
    public static void main(String[] args) {

            } else if (n >= 1100 && n <= 1500) {
                System.out.println(x: "You won a Cycle!");

                if (n >= 1100 && n <= 1300) {
                    System.out.println(x: "Brand: Avon Cycle");
                } else {
                    System.out.println(x: "Brand: Hero Cycle");
                }

            } else if (n > 50 && n <= 80) {
                System.out.println(x: "You won a Bike!");

                if (n > 50 && n <= 65) {
                    System.out.println(x: "Model: Bullet");
                } else {
                    System.out.println(x: "Model: Rajdoot");
                }
```



```java
public class LotteryGame2 {
    public static void main(String[] args) {

            if (n > 50 && n <= 65) {
                System.out.println(x: "Model: Bullet");
            } else {
                System.out.println(x: "Model: Rajdoot");
            }

        } else {
            System.out.println(x: "Better luck next time.");
        }

        sc.close();   ← // we have to close the scanner class
    }
}
```

if-else (* Macbook Range) ✓

if $\boxed{n>=300 \&\& n<=460}$

if (n>=300 && <=380 (Model M1 Mac))

(n>=381 && n<=460 M2 mac)

S-I

if 300 ——— 460

if 300 —— 380 381 —— 460

else

else →

if ( ) {

else if * Kurkure Range ✓ (S-II)

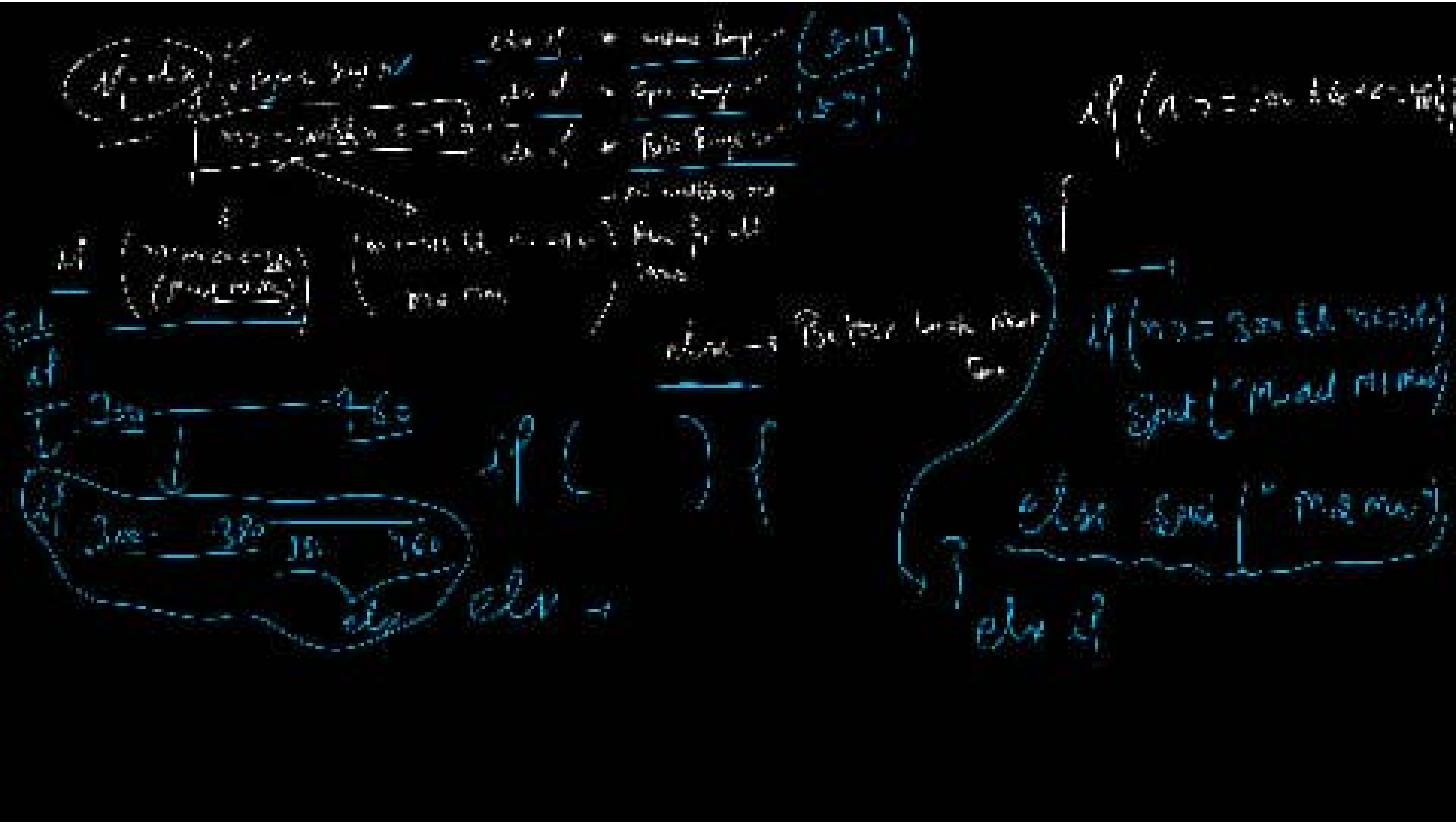
else if * Cycle Range ✓ (S-III)

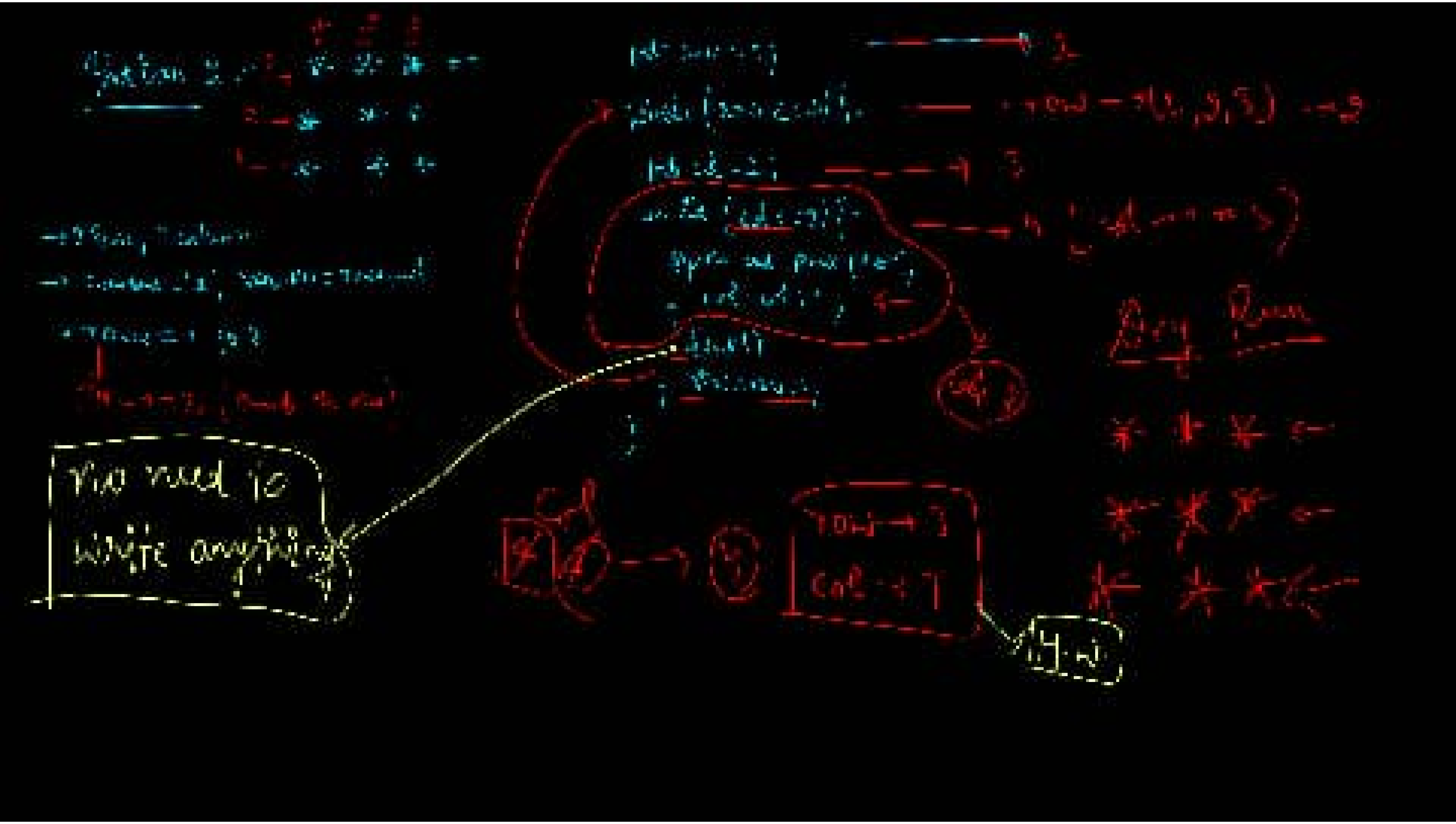
else if * Bike Range ✓

→ Sub conditions are there for all cases.

else → Better Luck Next Time

```
if (n>=300 && n<=460)
{
    → if (n>=300 && n<=380)
          Sout("Model M1 Mac")
      else Sout("M2 mac");
}
else if
```


else if
else if
else if
else → Better look next
if ( ) {
else
else if
else



[illegible]

```
[illegible]
[illegible]
[illegible]
{
    [illegible]
    [illegible]
}
```

row → (1, 2, 3) → 9

No need to write anything

row → 3

col → 7

H.W

Right Angled △ → 90°

Acute Angle △ →

Ques.

```
*           → col 1
* *         → col 2
* * *       → col 3
* * * *     → col 4
```

row ← 1

2nd row

3rd row

(4th row)

→ rows = 4;

row	col
1	1
2	2
3	3
4	4
:	:
n	n

```
row = 1;
while (row <= 4){
 int col = 1;
 while (col <= row){
  {system.out.print("*");
 } col = col + 1;
 Sout();
  row++;
}
```

Pattern 2 :-
```
1 → *  *  *  ←
2 → *  *  *
3 → *  *  *
```

→ 3 Rows, 3 column

→ constant = '*', variables = rows, col

→ rows = 1 to 3

(col = 1 to 3) [Inside the row]

no need to write anything

```
int row = 1;
while (row <= 3) {
    int col = 1;
    while (col <= 3) {
        System.out.print("*");
        col = col + 1;
    }
    Sout();
    row = row + 1;
}
```

→ 1

row → (1, 2, 3) → 2

→ 3

→ 4 (col → 1 to 3)

Loop 2

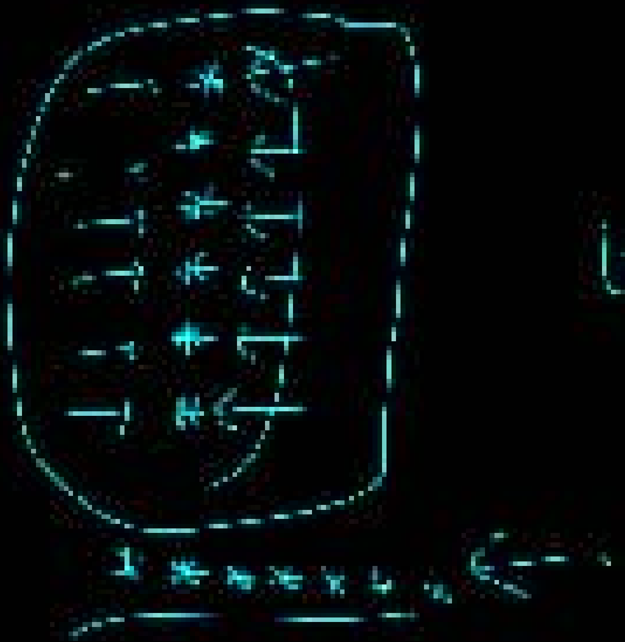
Dry Run

```
*  *  *  ←
*  *  *  ←
*  *  *  ←
```

row → 3

col → 7

H.W.

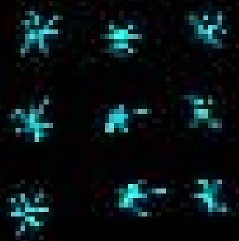


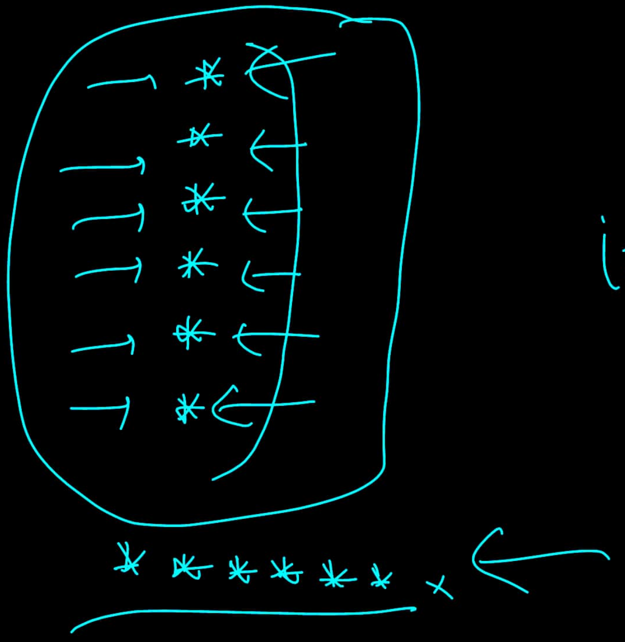
i=1 2

printf(i); ←

```
int i=1;
while(i<=6){
    printf("*");
    i=i+1;
}
```

i=7



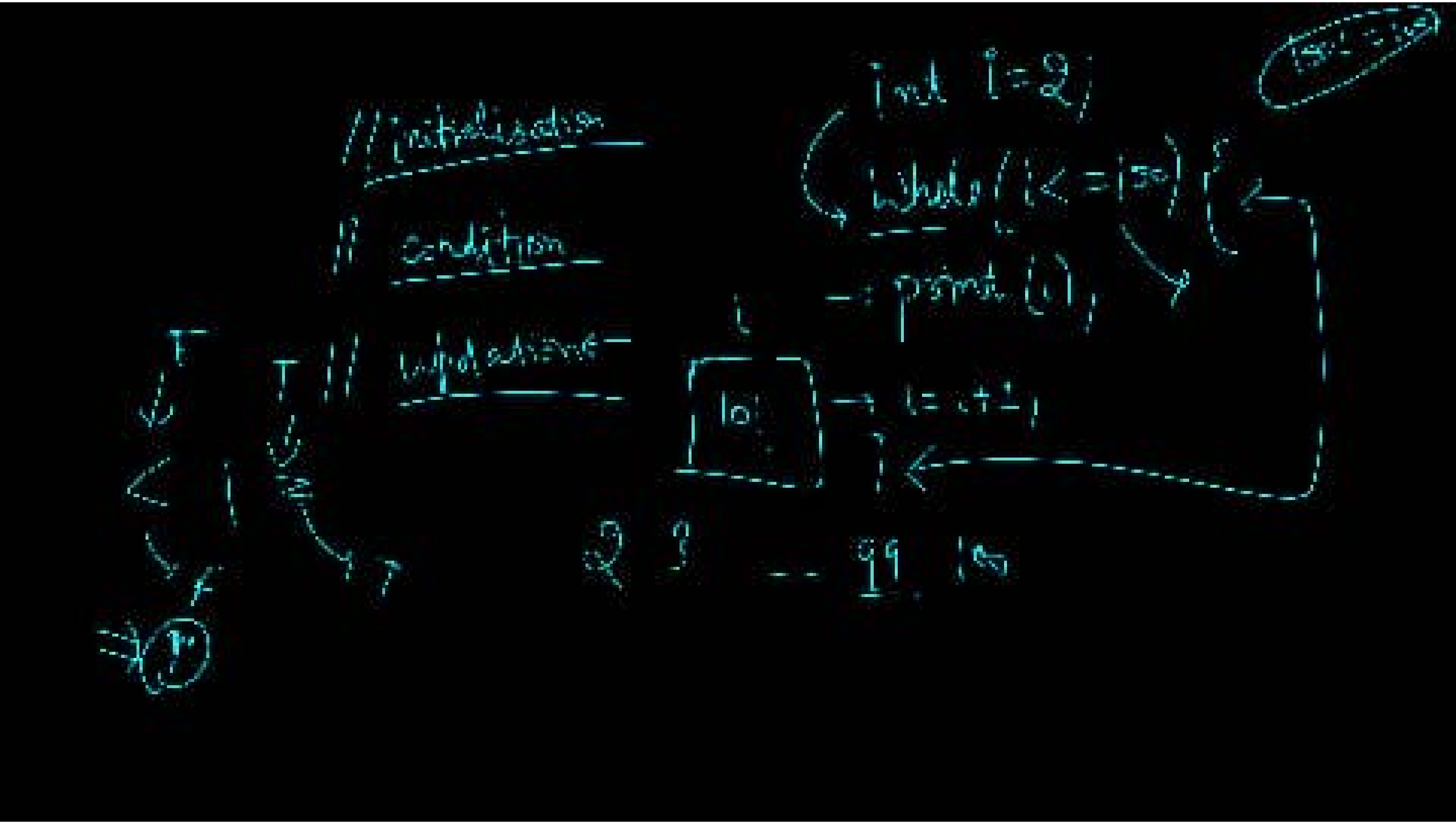


$i = \cancel{1}\ 2$

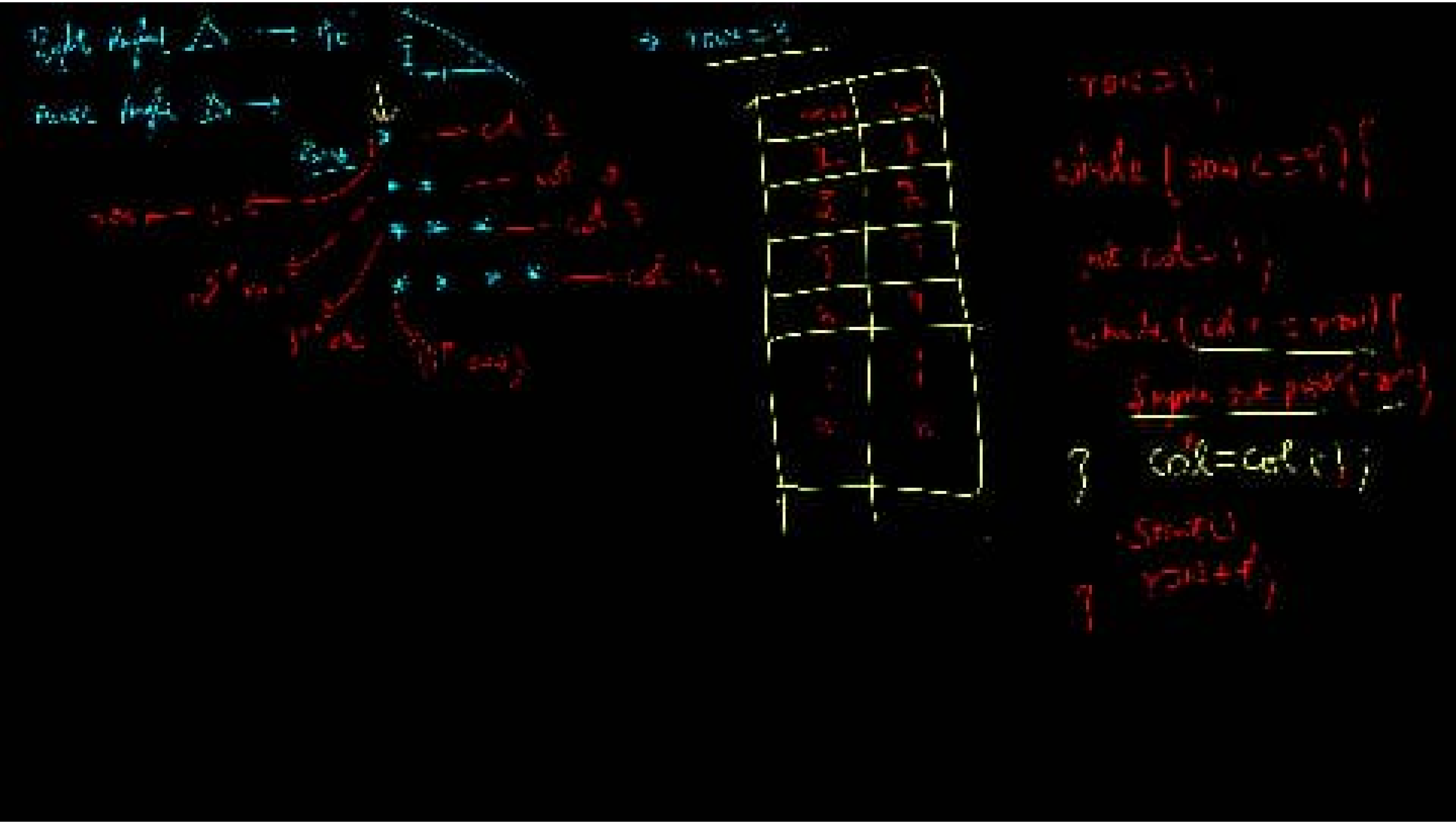
```
int i = 1;
while (i <= 6) {
    print(" * ")      ← print(i);
    i = i + 1;
}
```

$\boxed{i = 7}$

```
*  *  *
*  *  *
*  *  *
```



```
// initialization
// condition
// updation

int i=2;
while (i<=100) {
    print(i);
    i = i+1;
}

2 3 -- 99 100
```



```
row=1;
while(row<=4){
  int col=1;
  while(col<=row){
    System.out.print("*");
    col=col+1;
  }
  SOP()
  row++;
}
```

1001 = 100

```
// initialisation
// condition
// updation
```

```
int i=2;
while(i<=100){
    print(i);
    i=i+1;
}
```

i

$\boxed{101}$

2 3 . . . 99 100