

Starting at 7:05 am
Enjoy the song 90

# Today's Content

- 1. Context Details
- a. Decision making 3. Intro to If
- 4. Intro to If Elve

## Contest Details

1. If She-1 Monday

a. If Elve-2 Wednesday

3. Contest 1 Friday [2nd June ]

Duration: 90 min No of question: 4 ques

Timing: 7:00 am - 8:30 am
Difficulty level: Eary
Type of problem: Coding questions

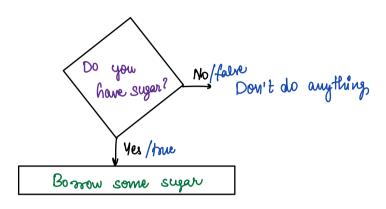
4. Content Bared on last 6-7 sessions

Note: Just after context we will have context discussion 8:30 am - 10:00 am

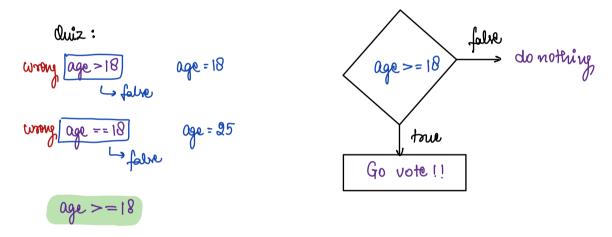
## Summary:

- 1. After every 6-7 sessions we will have one context
- 2. Context day and timing will be same as sevion.
- 3. After context ends, context discussion will start.
- 4. Type of problem coding questions

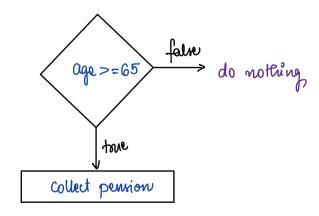
1. You love drinking tea but you are out of sugar and you are asking your neighbour.



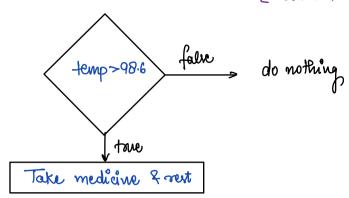
2. Sligibility criterion for voting



3. Check person is serior citizen or not, age >= 65.



4. Check whether person is suffering from fever or not. [mormal temp is 90.6]



Idea: when we want to do something when condition is True.

Syntax:

| Syntax: | Soblean expression: expression having value as true/false |
| (condition) {
| // statements we want to be executed | // when condition is true |

Quiz a:

# Voting Eligibility: check whether person is eligible to vote

```
public static void main () {

Scanner sc = new Scanner (System.in);

int age = sc.nent Int(); // age = 29

// person needs to be an adult

if (age>=18) { // 29>=18 [true]

System.out. println ("You are eligible");

}

Output: You are eligible
```

lues check if person has fever or not. [Ouiz 3]

ide new

### If / Else Intro:

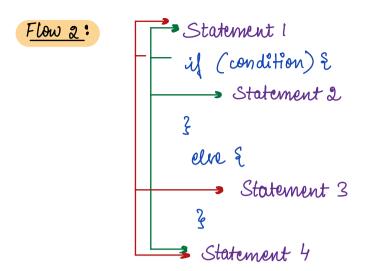
When we want to do something both scenerios:

- 1. when the condition is True
- 2. when the condition is False

### Syntax:

Q1. condition: True -> Statement 1

Q2. condition: False -> Statement 2



statement

Q. condition true: 1,2,4

0. condition false: 1,3,4

Quiz12. Can we have else without an else block? Yes

Quiz13: Can we have else without an if block? No

## Categorise Number

Given an integer number, categorine it into positive, negative, zero

	Input	Output	
Ex-1	35	portive	[n>0]
Exa.	-27	negative	[m < 0]
Ex3.	0	Zero	[n==0]

#### Code 1:

```
public static void main () {

Scanner sc = new Scanner (System.in);

int n = sc.nextInt();

if (n>0) {

// positive positive
}

if (n<0) {

// negotive
}

ssue: Wastage comparisons

// zero
}
```

### If Elve if

# Syntax:

```
if ( cond 1 ) {

// statements will execute

when cond 1 is true

}

clie if ( cond 2 ) {

// statements will execute

block when cond 1 is false and cond 2 is true

clse {

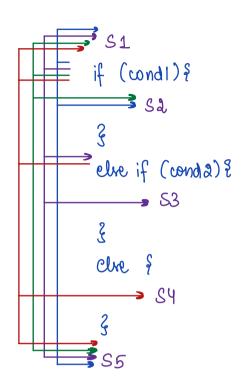
// statements will execute

block when cond 1 and cond 2 both are false

when cond 1 and cond 2 both are false
```

Note: We can have multiple else if s

## flow:



#### conditions: true Statements

```
Cond 1 → SI, SL, S5

cond 1 → SI, S3, S5

Cond 1 → SI, S3, S5

all falm → SI, S4, S5
```

### public static void main ()?

```
Scanner sc = new Scanner (System.in);
int n = sc.nextInt();

if (n>0) {
    // positive
}

clue if (n<0) {
    // negative
}

else {
    // zero
}
```