# L3 Control flow (if-else & loops)

Let's suppose you want the computer to decide whether someone will pass or fail in exam based on marks entered.

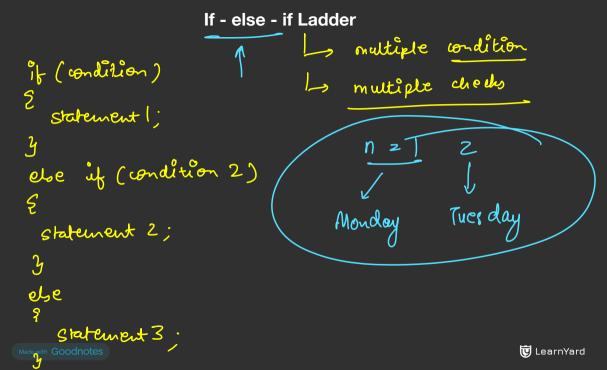
How do you think we can do it?

### What are conditionals statements and their use?

conditional statement decision

Statement;

If - Else Juf (condition) ib (n % 2 = = 0) even / odd 5.0. len (66 Even 11); S.O. Rlm (66 Odd 11). **U** LearnYard

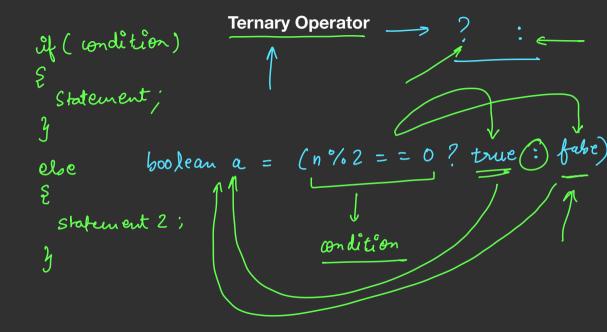


### Max of 2 numbers

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### Max of 3 numbers

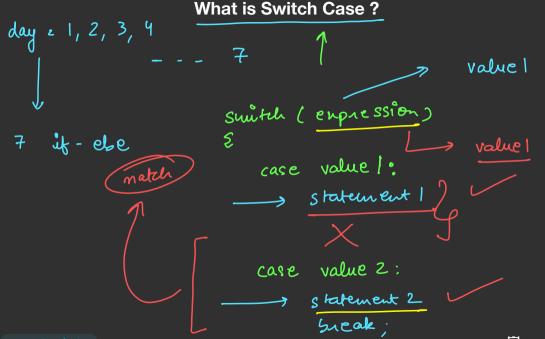
a>=b & & a>=c



#### **Watermelon problem Codeforces**

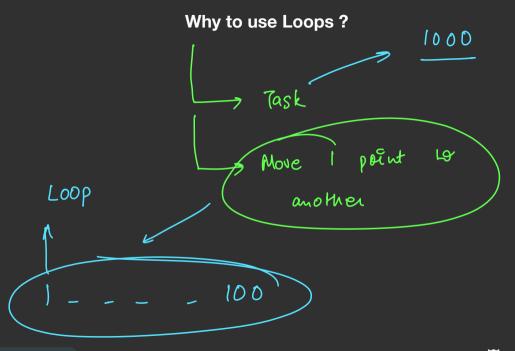
https://codeforces.com/problemset/problem/4/A

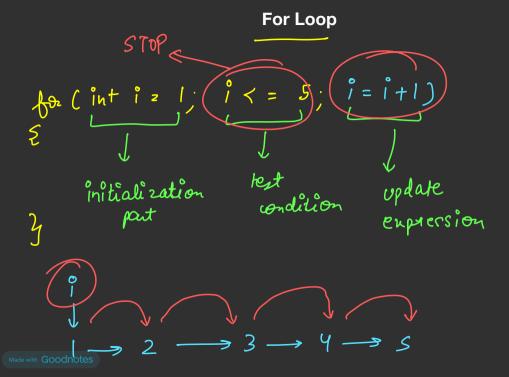




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### For Loop

for (int i = 1; 
$$i < = 5$$
;  $i = i+1$ )

$$\begin{array}{c}
5 \\
5 \\
6
\end{array}$$

$$\begin{array}{c}
6 \\
7 \\
2 \\
3 \\
4
\end{array}$$
Massewith Goodinates S

### While Loop

initialization statement

white ( rest condition)

{

Statement

update expression

Initialization
lest condition
update

 $6 < 2 5 \rightarrow fabe$ int 1 = 1; 9<25 ulite ( i < = 5) S.O. Eln (1); STEP 2 2 6 2 5 12 1+1; 12 3

### **Do-While Loop**

```
initialization statement
de
 Statement "
  update enpression
3 mile (test-condition);
```

121, Hello, i= 2, 2< = 5 122, Hello, 123, 3< = 5 do 123, Hello, 124, 425 12 4, Hello, 125, Stas S. O. Dlu ( " Hello "). 125, Hello, 126, 6<25 12171; 3 mile (1/2 5);

#### **Homework Questions**

- 1. Program to check whether a number is negative, positive or zero.
- Program to check whether a number is divisible by 5 and 11 or not.
- 3. Program to check whether a number is even or odd.
- 4. Program to find sum of all even numbers between 1 to n.
- 5. Program to find sum of all odd numbers between 1 to n.
- 6. Program to find HCF (GCD) of two numbers.
- 7. Program to find LCM of two numbers.

## Thank You!

Please practice more questions and examples as above !!

