

L3

Control flow (if-else & loops)

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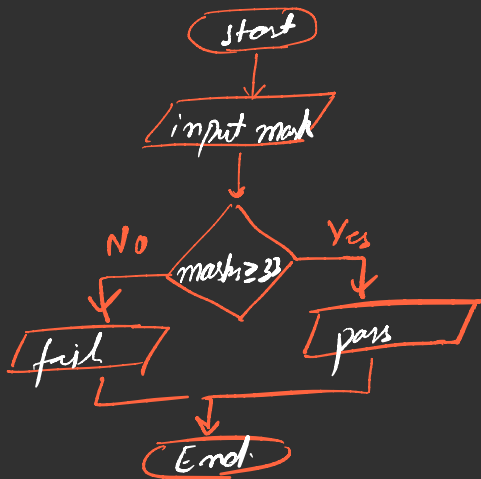
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Let's suppose you want the computer to decide whether someone will pass or fail in exam based on marks entered.

How do you think we can do it ?

$33 \geq \text{pass}$



## What are conditionals statements and their use ?

*if*  
*else*  
*else if*

}

If

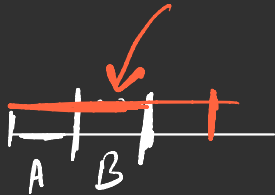
→ if (expression) {



{ executes only if the expression is true  
otherwise its skipped.  
}

## If - Else

## If - else - if Ladder



90 +	91-100	A
80 +	81-90	B
70 +	71-80	C
60 +	61-70	D
50 +	51-60	E
40 +	41-50	F

33-40  
32 + 6

32 <= Fail

0 - 32

# Max of 2 numbers

# Max of 3 numbers

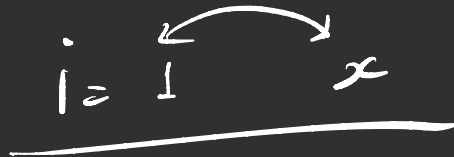


# Ternary Operator

# What is Switch Case ?

## Day of week using Switch Case

## Why to use Loops ?



# For Loop

initialization

update

for (int <sup>1</sup> i = 1 ; <sup>2</sup> i <= 5 ; i++ ) {

condition

<sup>3</sup> body

cout << i << endl;

iteration (

1	(1, 2, 3, 4)	1
2	(2, 3, 4)	2
3	(2, 3, 4)	3
4	(2, 3, 4)	4

5

1	i
2	1
3	2
4	3
2	4
3	5
4	6
2	
3	
5	

→ }

## While Loop

① condition  
while (expression) {  
② body  
}

# Do-While Loop

# How to find number is Prime or not ?



## Homework Questions

1. Program to check whether a number is negative, positive or zero.
2. 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 !!