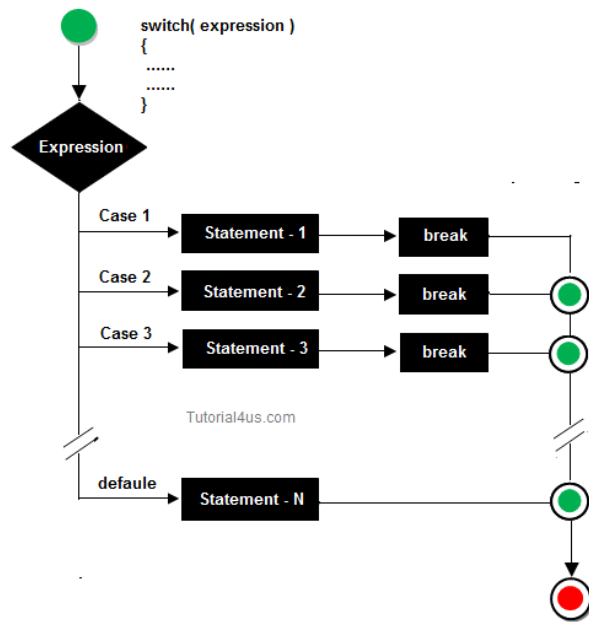## Objective:

- To learn to use conditional statements (if, else, switch case)
- To learn the usage of loops (for, while, do-while)

TOPICS	CODE-SNIPPET
if else	**switch**

if(condition){
// do something
}
else{
// do something else
}
	switch(case){
	case 1:
	// do things for case 1
	break;
	case 2:
	// do things for case 2
	break;
	default:
	// do things for default case
	}

while	**for**

while(condition){
// do something
}
	for(int i = 0; i < 10; i++){
	// do something
	}

switch(expression)
{
......
......
}

Expression

Case 1 → Statement - 1 → break
Case 2 → Statement - 2 → break
Case 3 → Statement - 3 → break

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defaule → Statement - N

START

Is <thisIsTrue> true?   no

yes

<statementsToRepeat>
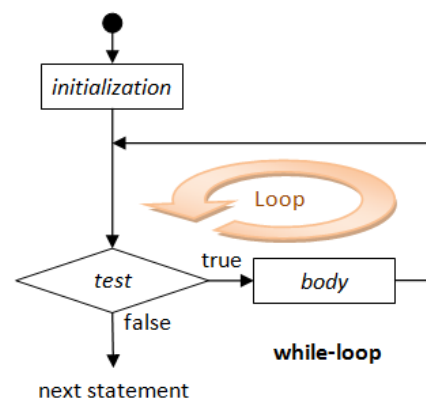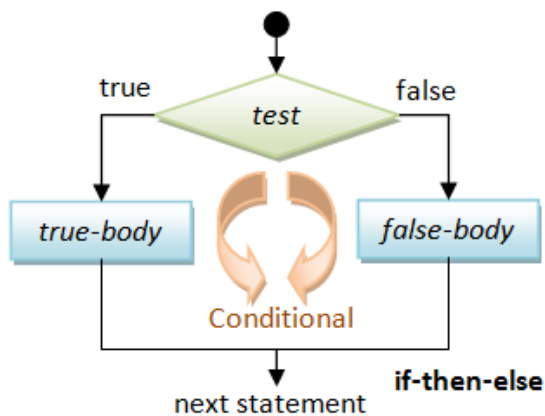
STOP

Tasks:

1. Write a program that takes an integer and determines if it's odd or even. Use switch cases to produce result.

2. Write a program that takes an integer and determines if it's prime or not. A number is prime if it is divisible by 1 and itself only, i.e. 2, 3, 11, 37 etc.

3. Write a program that prints the multiplication table from 1 to 5.

1 X 1 = 1

1 X 2 = 2

....

5 X 10 = 50

4. Write a program that takes an integer and prints its divisors, i.e. divisors of 12 are 1, 2, 3, 4, 6