21. Control Flow Statements in Java | Switch Exp. Switch Cases, do-while/while Loop

## Switch Case

In Switch Cases if theak not applied, at any case and that case gets choosen, All the rade below it gets executed till a break statement is encounteded.

Example)

Int a = 10;

Switch (a) {

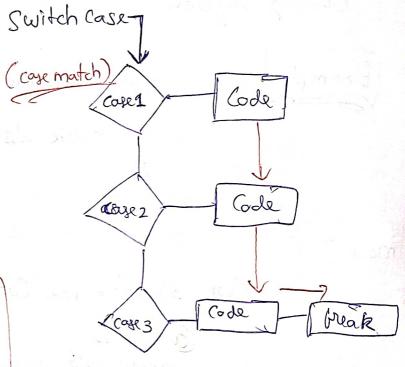
Case 10:

L - code - ...

Case 30:

Case 30:

default:



All the code from this till any break or end of default section gets executed.

\* We can morge cases together. Even write the "," separated.

Switch (a) {

case 10:

case 20:

OR

Switch (a) {

Case 10, 20:

Code section

break.

7

of we need not always need to write default brock in the end. But if we are writing default block in the middle, we must apply break statement. 20P=2 Switch ( exp) { Time of your only only on biroggo 2 5 case 1: reak; Satisfying this Use case.

default:

case 20: · ·· code · · · ( code esecuted) (age 10: Code-1-[code executed]. Only Difference between while and do-while is that do while will get executed once even if the expression is False

înt val = 10;

do {
Val++; -> val becomes 11 while (val <10) 5 of Here next time it breaks. Switch case few rules.

& Case value has to be a LITERAL/ConsTANT. Cannot be variable

Do not need to handle all use cases. You can even skip default

Mested Switch Statement is possible,

& Supported datatypes to use in switch (datatype);

1) 4 Brimitive types: int, short, byte, char

2) Wrapper Classes: Integer, Short, Byte, Character

s) Enum

4) String

Nested Switch Case | Example in Example in Code |
String month="Nov",

Switch (age) {

Case 10,20,40:

Swith (month) {

Few Cares

3,

Few more Cases

Return Statements are not possible within Switch Cay

intage=1

String val = Switteh (age){

case 1:

return "1";

(Compile ERROR)

3

(Switch Expression) [ Java 12 onwards]
In Switch Case we saw that returning from switch
Statement is not allowed.
Switch Expression allows us to do so
(Caye N-7) Using this.
int age=10;
String val = switch (age) {
Case 10 7 "Ten"; Break Statement Not default -> "None"; returning from here
->2 All possible vse cases need
to be handled since are are
returning something
Broken with case 1017 we can only return, we cannot write a block of code inside it and Return.

This profilem is solved by Yield Statement

String val = switch (exp) {

case exp: {----
case lexp: {----
yield "zo";

3.