CS & IT ENGINEERING



Programming in C Control Flow Statements Lec - 05



By- Pankaj Sharma sir



TOPICS TO BE COVERED

Switch Statements

Switch statement

- * switch is a keyword
- + Used to Brovide selection statement with multiple choices.
- * Multiple choices are Brovided using Reyword: case

```
switch(n) {
```

Case 1 . Code to be executed when the value of n is 1.

break;

Case 2: Code to be executed when the value of break;

default: Code to be executed when on is not 1 or ?

break;

```
2+3x3 J.
Switch (expression) {
          case constant, o
                                    Code 1
                                 break;
          case constant 0
                                 Code 2
                                 break ;
          case constants o
                                 block of statements
                                 break ;
               default
                                  Code
                                 break;
```

2 step O matching

int 1=3;3 switch (i) { case 1 printf ("One");

break;

by default

sequentially

break;

break; default o printf ("Wrong");
break;

int 1=3;3 1) Continue Lyonly for loops switch (i) { 2) continue - switch ud ke loal 1 matching printf ("one"); case 1 break; by default Sequentially case Three

int i; i=3; 73 switch(i){ *Case 3 1 printf ("Three"); ThreeOne printf("One"); break; default : printf ("Zero);

Expression that Switch (expression) Eval to be int value 10 10+20 switch ('A') { 10 22 30 Case 67 : 10<10 10 < 20 22 3>5 break; Code 65: Code break 0==20 int a=1, b=2 a+6x3 17 38 - A Ud Re last default: break brintf ('Pankaj),

A'
A'+2

Switch (printf ("Anushka")) case 1 o pointf("1");
break; default = printf ('Hello');

break;

AnushkaHello

int
$$i = 3$$
;
Switch (i+2) {

Case (5) : printf ('5)

if
$$(i==1)$$

Where $(i==2)$

The second in the second in

```
case 3 : printf("3");
break;

case 1 : printf("1");
break;
```

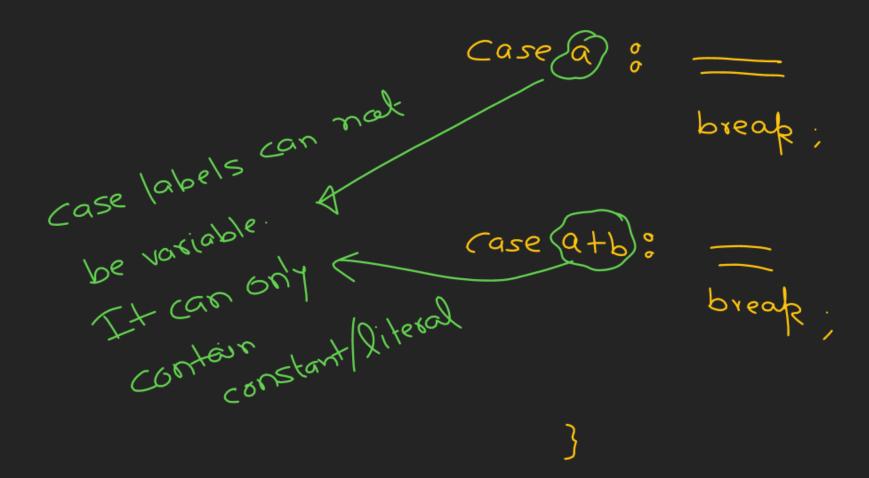
7

int
$$i=3;$$
Switch(i) {

Durnny switch

switch(i);

int
$$a=1,b=2$$
:
Switch(3) {



Duplicate case are not allowed. switch(i) { Case 4: pf("4"); Regulator Case 3+1: of ("four"); break ;

if
$$(i > = 1)$$
 22 $i < = 10)$ Ronge of $(1 + 0.10)$ $($

Not for all compilers

low, high
1 to 10 - Prode

switch(i){

int 1=2; switch(i) { Case label. 8 i = i+2; printf ("2"); \ break; boeak; Case labeliz : case 4: printf("4"); break; break.

Switch set of values 1,3,5,7 => code switch(i) { 2,4,6 => code case 1 0 case Case case 7 : + printf ("Ponkaj"); 1.2 break;

$$0.771 = 5+1=7$$

 $0.771 = 5+1=7$
 $0.771 = -(-3) = +3$

$$a:3,b=2$$
 $a:3,b=2$
 $a:4$
 $a:4$

int (i) switch(it2)

- 1 break is optional.
- 2) Order of case labels does not matter.
- 3) Pasition of default does not matter.
- 9 default is optional.
- (5) switch(i); ~ inties switch(i) {

(6) switch(); Compiler ud Re Exp is not optional

7) case labels must be constant.
OR
Ony exp. containing all constants

Cose 1:

Case 1+2.

case 1<2 28 3×5

case a X

case at 2 X

case (printf()) X

Case A

case 'a'

Case A+2

Anna 24 Ghante Chaukanna (8) duplicate case lobels not allowed



