CS & IT ENGINEERING

Chapter 02

Programming in C

Control Flow Statements Lec- 04



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TOPICS TO BE COVERED

Switch-Case Statements

Switch statement

1) Switch: Keyword used to provide selection statement with multiple choices.

It brovide multiple choice using another Reyword: [case]

```
switch(n) {

case 1: Code we want to execute if the value of n is 1

break;
```

```
case 2: Code we want to execute if the value of n is 2.

break;

default: Code we want to execute when the value of n does not match with any case label.
```

| 7+4X3 — P Evaluate | |
|--|---------------------|
| switch (expression) { | |
| 1 | |
| Case constant, | block of statements |
| | break: |
| case constant: | block of statements |
| Case constants: | break; |
| in the second se | block of statements |
| de-Gault: | - preak: |
| Cie-lault: | |
| 3 | break; |

Ex2

int i=3; 3 switch(i){ case 3 :- printf ("Three"); Three Four Falling through case 4: brintf ("Four"); Cases default print ("Wrong");

```
Switch(i){
Case 1:
          break;
Case 2:
          break;
default:
         break ;
```

Evaluated to be integer value switch (expression) (i) 2+3 (11) 4/2 (iii) 1 < 2 2 22 7 (IV) int a=1, b=2 (V) axb+1 Brintf ("Pankaj") (vi) 17.38 X Ud Re lagt Marega (vii)

case 65:

Order of case Dabels closs not matter.

default is optional

0+00 > (fooling type)

int

Hosting

type

9/P:

Switch(i) {

Valid

switch(i); (ombiler ud fee last marega

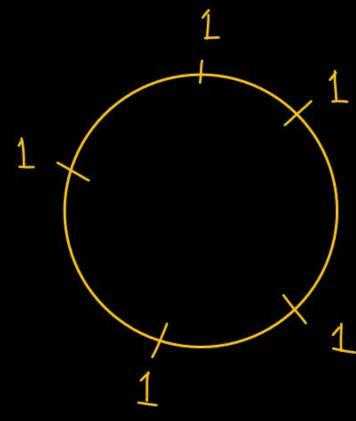
Case labels int a=1,b=2; switch(3+5){ label: printf (-) X Case (a) variable X a+bx2 X break ; Can not int constant/literal case (b) variable 2+3~ (of a=1.) break. (constant/literals) 3×4+2~

2+a X



1=5 switch(i){ \default/ break; Case break; \$ase 3: break;

1=2 Switch (it 3){ 0 Case Ud ke Jaak break regulator mategar Cose 3+1: break;



~

Duplicate case labels?

if
$$(i > = 10 \ \text{ll} \ i < = 100)$$

Code

Same Same Code

Code

Code

Not all compilers not for Gale

Case low high:

Switch(i){

case 1 ... 10 brintf ("Hello");
break;

Case II.. 20 : printf ("Bonkaj"),
break.

7

```
int 1=3;
           Switch(i){
                                        Anna 24 Ghante
             case 4: printf ("4");
                                               Chaukanna
Dublicales
             Case ~5+1: printf("3");
case labelsk
                                                     \omega x = -(x_{+1})
                                                     ~ -4 => -(-4+1)
                                           N-4+1
                 ( -4+1): printf("1");
             Case
             case 2 223: printf("0");
```

switch(exp){ Case label1: Code break; Case labera: Code break; Case labelz: Code break:

$$1,3,5,7 \implies Same$$

$$Code$$

$$2,4,6 \implies Same$$

$$Code$$

Set of values -> some code

Vary complaint switch(i){ Case 1-Case 1 ... 10: Case 3: 8,9,10 case 5dusticate Case 8 ... 20 Case label 8,5,10 break; 5000

- break is optional. 2.) Expression must be eval to integer Order of case labels does not matter. 4) default is optional. A start 5.) Position of default does not matter & End switch(exp); (Dummy switch) 6. switch(); A Error Case labels can not be variables (constant/literal) (12+3
- Duplicate case lobels are not allowed.



