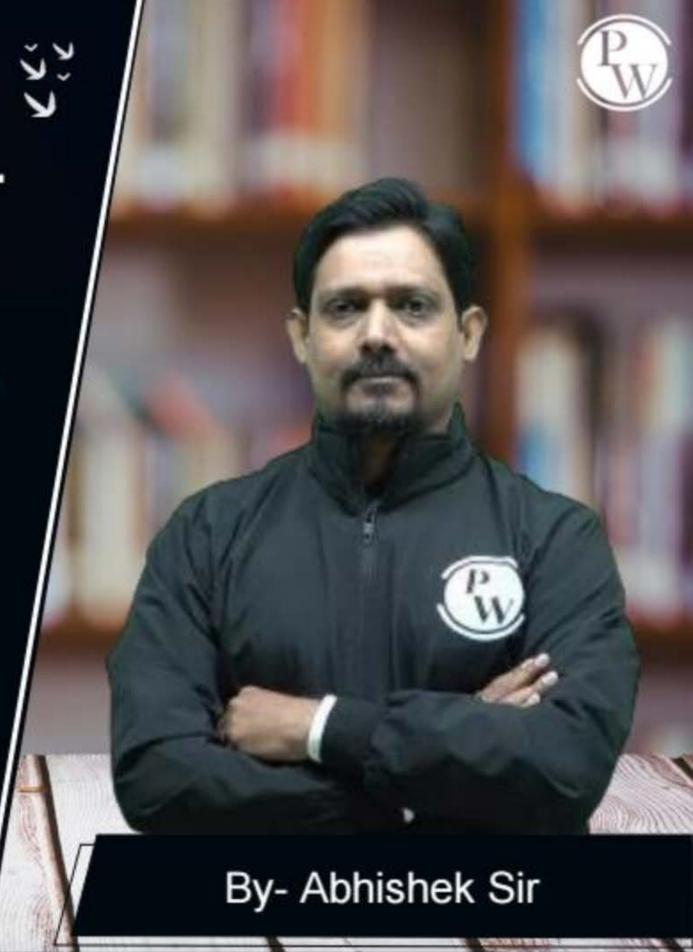
Computer Science & IT

C Programming



Control Flow Statement

Lecture No. 03



Recap of Previous Lecture



















Topic Switch

Topic

Iterative statement [for Loop]

Topic

Topic

Topic



Break



Switch cases if broeak is Not present the all subsequent cases evaluates true.

Break Statement takes control outside of switch block.





```
#include <stdio.h>
     int main() {
                     expoession
      int a = 5;
       switch(a-1){
               case 4: printf("%d",5);
               case 5: printf("%d",5);
               case 6: printf("%d",6);
```

Output

556

Reason

after case 4 Since No booak is present all Subsequent cases are tone.





```
#include <stdio.h>
int main() {
        switch (13/4) {
        case 3: printf("%d",4); break;
        case 4: printf("%d",2); break;
        case 5: printf("%d",5); break;
```

Output

4

Reason





```
In-leger/poat=-/loat
#include <stdio.h>
int main() {
        switch(13/4.0) {
        case 3: printf("%d",4); break;
        case 4: printf("%d",2); break;
        case 5: printf("%d",5); break;
```

Output

Compiler Error

Reason

Switch (Integer)





```
#include <stdio.h>
int main() {
      switch ('d'
       case 'a': printf("%d",4); break;
       case 'b': printf("%d",2); break;
       default: printf("None");
       case 'c': printf("%d",5); break;
```

Output

None5

Reason:
No position fixed for default. Because No break is present case c'also true





```
#include <stdio.h>
int main() {
        switch(4){
        case (2): printf("%d",4); break;
        case (1+1): printf("%d",2); break;
        default: printf("None");
```

Output

Emod

Reason

Duplicate care Not allowed





```
a is a variable
#include <stdio.h>
int main() {
                        Case Label Should be
       int a=2;
                            a constant can't
        switch(4){
                                  be a variable.
        case 2: printf("%d",4); break;
        case a: printf("%d",2); break;
        default: printf("None");
```

Output

Errors

Case Label is Not

inleger constant

Reason





```
What will be the output of the following C program segment?
Char inChar = 'A';
switch (inChar) {
    case 'A' : printf ("Choice A\ n");
        case 'B' :
        case 'C' : printf("Choice B");
        case 'D' :
        case 'E' :
        default : printf ("No Choice"); }

(A) No choice
(B) Choice A
(C) Choice A
Choice B No choice
(D) Program gives no output as it is erroneous
(D) Program gives no output as it is erroneous)
```



What is Iterative Statement?



* Suppose we wont point each student Name in class

* we want to point morksheet for every student

* we want to point ASCII value for every character



What is Iterative Statement?



Print My name 100 times



Second Way is loop



Print My name 100 times

- 2. While Loop:
- 3. do while:

Loop control statement

- 1. broeak;
- 2. Continue
- 3. goto





Print My name 100 times

$$2019/$$

$$-\left(\sigma(); \sigma(); \sigma()\right)$$





```
Print My name 100 times
```

expot.

Stmt

Initialization

1 time

expos

Condition checking

Expected Relational expression

Body of Loop executed when condition evaluates to toue (Non Zero)





Print My name 100 times

expos: Should be increment/decrement and executed offer Completion of every Statement in (function body.





Different range of numbers

Name will be printed 10 time

-los this program after pointing itt will execute



No. of times loop execute



Different range of numbers

Loop Access away element

Array Index start from o





Different range of numbers

No. of times loop execute
$$21 - (-10) + 1 = 31 + 1 = 32$$

output of poorgram # include<stdio.h>
int main() { 7255 Compiler Error 86Hs char ch; wooning (c) toop will execute 1 time pmn-1f ("%c", ch); (D) toop will execute 255 times Ch=O; → Loop will Not execute

Ch=1 - +one

Ch=2 - tone

:

Ch: 255 - True

Ch: 256%256 = 0 < Loop will break;

No. of times toop executed (start pointed) (D) too (;) Infinite opp (A) inti=1; 10+imes foo(;i<=10;i+1)(B) inti; if No condition— Condition

for (i=1; i++) int i Infinile loop

for (i=1; i=10;



```
No of times point function executed is
#include<stdio.h>
int main()
                                     out put?
    int i, j, k = 0;
    j=2 * 3 / 4 + 2.0 / 5 + 8 / 5;
                                     1 = 2 * 3/4 + 2.0/5 + 8/5
= 6/4 + 2.0/5 + 8/5
    k-=--j;
    for (i=0; i<5; i++)
        switch(i+k)
                                        : 1+:0.4 + 1
            case 1:
            case 2: printf("\n%d", i+k);
            case 3: printf("\n%d", i+k);
            default: printf("\n%d", i+k);
                                                       is integer 1-2
    return 0;
```





```
No. of times point function executed is
#include<stdio.h>
int main()
                                    output?
   int i, j, k = 0;
   j=2 * 3 / 4 + 2.0 / 5 + 8 / 5;
   k-=--j;
                             1 upda-led
   for (i=0; i<5; i++)
        switch(i+k)
            case 1:
            case 2: printf("\n%d", i+k);
            case 3: printf("\n%d", i+k);
            default: printf("\n%d", i+k);
    return 0;
```



```
10 point
```

```
Pw
```

```
No of times print function executed is
#include<stdio.h>
int main()
                                      output?
                                                                No of time
    int i, j, k = 0;
    j=2 * 3 / 4 + 2.0 / 5 + 8 / 5;
                                                1=
                                                      SwHch(itk)
                                                                        outpu
    k-=--j;
                                                      Switch (-1) defaut
                                               1:0
    for (i=0; i<5; i++)
                                                      Swith (0)
                                                                defau
                                                1=1
        switch(i+k)
                                                               case 1
                                                      SwHch(1)
                                               1=2
             case 1
             case 2/ printf("\n%d", i+k);
                                                      Switch(2)
                                                               Case 2
                                                1:3
             case 3: printf("\n%d", i+k);
                                                               3+mus
             default: printf("\n%d", i+k);
                                                               Care 3
                                                      Swith(3)
    return 0;
```



2 mins Summary



Topic

Switch

Topic

for Toop

Topic

practice question

Topic

Topic

THANK - YOU

