# CS & IT ENGINEERING

Control flow statements

# Programming in C

Decision control statement-1

**DPP 01** Discussion Notes



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TOPICS TO BE COVERED

01 Question

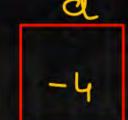
02 Discussion

```
Q.1
```

```
#include <stdio.h>
int main(void){
  int i = 2, j = 3, k = 4;
if (i < j? 1:0)
                 printf("GATE");
     else
                 printf("Wallah2023");
     return 0;
The output of the program is GATE
```



```
a
```





$$if(a = b - c - d)$$

 $\times$  printf("%d%d%d", a++, b--, c++);

else

printf("%d%d%d", c--, ++ a, ++b);

The output is 310.

B

1 -2 4

3 3 0

$$Q = b - (-d)$$
  
 $-1 - 3 - (-4)$   
 $= -4 + 4$   
);  $Q = 0$  Assignment

printf("GATE WALLAH");

return 0;

Compiler error

}

The output of the program is \_\_\_\_\_

gram is \_

**GATE WALLAH** 

(B)

A. GATE 2023

\B.

D. Garbage value

1





$$a = 3>27070:1:5;$$

$$(3>2)7(070:1):5$$

$$= xp1 \qquad exp2 \qquad exp3$$

$$a = 0.70:1$$

```
#include <stdio.h>
  void main(){
  int a;
   if(a\%4 = = 0)
  else
       a = a - 5;
  printf("%d", a++); 4
```

The value of a at the end of the program is  $\frac{2}{2}$ ?







21

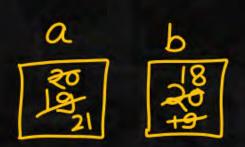
$$16\% = = 0$$
 $0 = = 0$  True

```
Q.5
```

```
[NAT]
#include <stdio.h>
  void main(){
                                             j<k ? K: j --
  int i, j, k;
       j = 4;
                                              expi
                              3+0-1
       k = 0;
       i = j < k?k:j--;
    if(j < i)
            3<4
                 j = j + k - 1;
    if(j = = i)
                                                      (i) use the value of;
                 j = j - i;
                                                      (ii) Dec the value
    else
                             j=j+(-k)=)(1) k=k-1
    printf("%d", j + k - i);
                              J=j+K=)j=2+(4)=2-1=1
                14-11-4
The output is ____.
```

### Consider the following program:

```
#include<stdio.h>
  int main()
         int a=19, b=20;
         if(a++<b--) printf("%d",a+++--b);
         else printf("%d", ++a+--b);
         return 0;
The output is __38
```



## [NAT]



if 
$$(a++ < b--)$$
  
 $19 < 20 \Rightarrow True$   
 $+ <$   
 $a+++--b$   
 $(a++)+(--b)$   
 $20 + 18$ 

=) 38

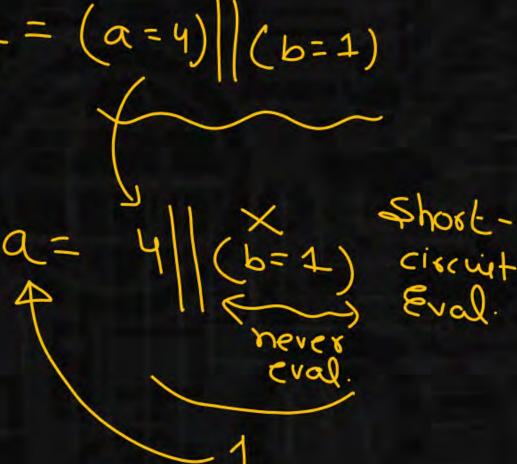
```
#include<stdio.h>
                                        04
  void main()
    int a=0, b=0;
    a=(a=4)||(b=1);
    if(a&&b) printf("CProgramming"); x
    else printf("PankajSharma");
    printf("%d",b);
The output is-
Cprogramming0
                       B.
                             CProgramming1
```



PankajSharma0

D.

PankajSharma1



[MCQ]



