C-29 > Nested If in C * Within if we can use another if block condition; we can also also skipels syntan: of (Condition 1) of (condition 2) if (condition 1) Irver if block statements, Lelse h Innor if block Statements; 9 outer else block statements; Statements outside Neoted if;

if (go to supormarket) if (oranges available) oranges)
Sony;
The Dont buy; Flow chart: Terminate True Condition 1 False False. June Cordition false block. Innur Invo The Make Vouter else block Statements outside Nisted if

```
Priognam:
  void main!)
    int age, Dalary;
   print ("Enter age & Salary; ");
    Start (" 1.d 1.d, bage, & Salary);
     if (age >50)
      4 (Salary 260,000)
           Salary = Salary + 10000;
            g Salary - Salary + 5000;
             Salary = Salary + 3000,
        print ("End of pgm in");
        getch 17:
```

PIP Entir agrosalay Enter age & salony; Enter agrasology: 70,000 75,000 Salary, 86000 Solary = 73,000 Salary : 55,000 End of pgm. End of pyn End of paym * Nested if can be avoided by using logical AND in single if block statement Condition. 2m:2 if (age > 50 88 Salary < 60 000) Salary = Salary + 1**6**000;

else
2
Salary = 3 alary + 5000; Galary = Salary + 3000; getiche?

13m3 (Maximum among 3 numelers using nested of void main!) art a, b, c; pount ("Enter a'=In b=In c=In"); Scanf (" %d')d /d, ba, bb, bc); if (a Lb) if (bLC) frounty (" c=1.d is largest number, c); pointly ("b=1.d is largest number", b). points (" a = 1 d is largest number; c)

CODE 1:

```
#include <stdio.h>
      #include <stdlib.h>
 3
    /* 1 - nested if */
      int main()
 4
 5
    □ {
 6
        int age, salary;
 7
        printf("Enter age and salary: \n");
 8
        scanf ("%d%d", &age, &salary);
 9
        if(age>50)
10
11
         if(salary<60000)
12
13
          salary=salary+10000;
14
          printf("Salary:%d\n", salary);
15
16
         else
17
18
          salary=salary+5000;
19
         printf("Salary:%d\n", salary);
20
21
22
       else
23
24
        salary=salary+3000;
        printf("Salary:%d\n", salary);
25
26
       printf("End of the program, Outside of nested if..\n");
27
28
       getch();
29
30
```

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```
Enter age and salary:
53
45000
Salary:55000
End of the program,Outside of nested if..
```

```
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Enter age and salary:

57

75000
Salary:80000
End of the program, Outside of nested if..

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Enter age and salary:

45

70000
Salary:73000
```

End of the program,Outside of nested if..

CODE 2:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /* 2 - nested if, To find maximum among 3 random numbers */
 4
     int main()
 5
   □ {
 6
          int a,b,c;
 7
          printf("Enter Values of a,b and c:\n");
 8
          scanf ("%d%d%d", &a, &b, &c);
 9
          if(a<b)</pre>
10
11
           if(b<c)</pre>
12
            printf("c=%d is the largest number",c);
13
14
15
           else
16
           printf("b=%d is the largest number",b);
17
18
19
          }
20
            else
21
22
             printf("a=%d is the largest number",a);
23
24
```

```
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```

```
Enter Values of a,b and c:
60
40
20
a=60 is the largest number
Process returned 0 (0x0) execution time : 8.179 s
Press any key to continue.
```

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```
Enter Values of a,b and c:
50
70
30
b=70 is the largest number
Process returned 0 (0x0) execution time : 9.448 s
Press any key to continue.
```

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```
Enter Values of a,b and c:
20
40
80
c=80 is the largest number
Process returned 0 (0x0) execution time : 8.017 s
Press any key to continue.
```