C27 > If statements in c

Control Statements:

Statements used to Control something.

Enangle:

void main()

first a,b, sum;

prints ("Enter a & b:");

scars ("'/d /d", &a,&b);

sum = a+b;

points ("sum = /d", sum);

control flower statements.

points ("Don't want to calculate sum);

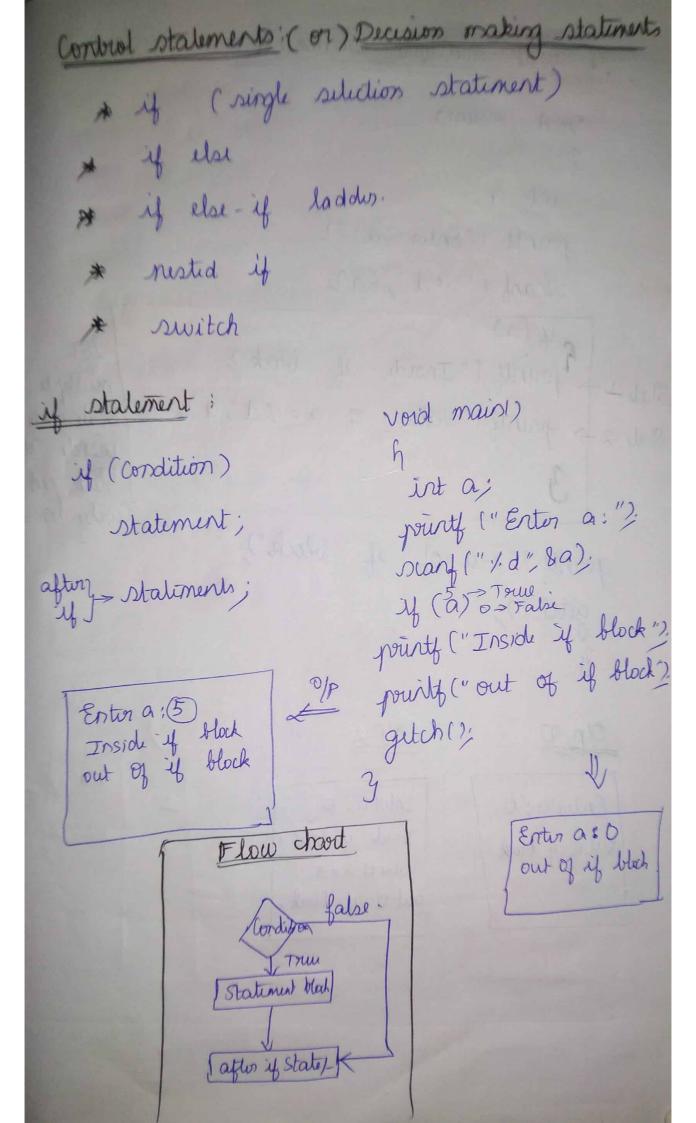
getch ();

* Control the flow of Statements

* Always used to control the flow

of statements execution process.

* Types of Control Statements.



if with multiple statements: void maint) int a; jointy ("Enter a: ") scarf (")d", ba) State 2 pourit (" Inside if block"); multiple State 2 > prints (" value & a = 1/. d", a); Staliments inside if block put Curly braw points (" out of if block"). getch (); 900 0/P2 Entra: 0 Enter a: 5 Inside if block out of if block Value of a = 5 out of if block.

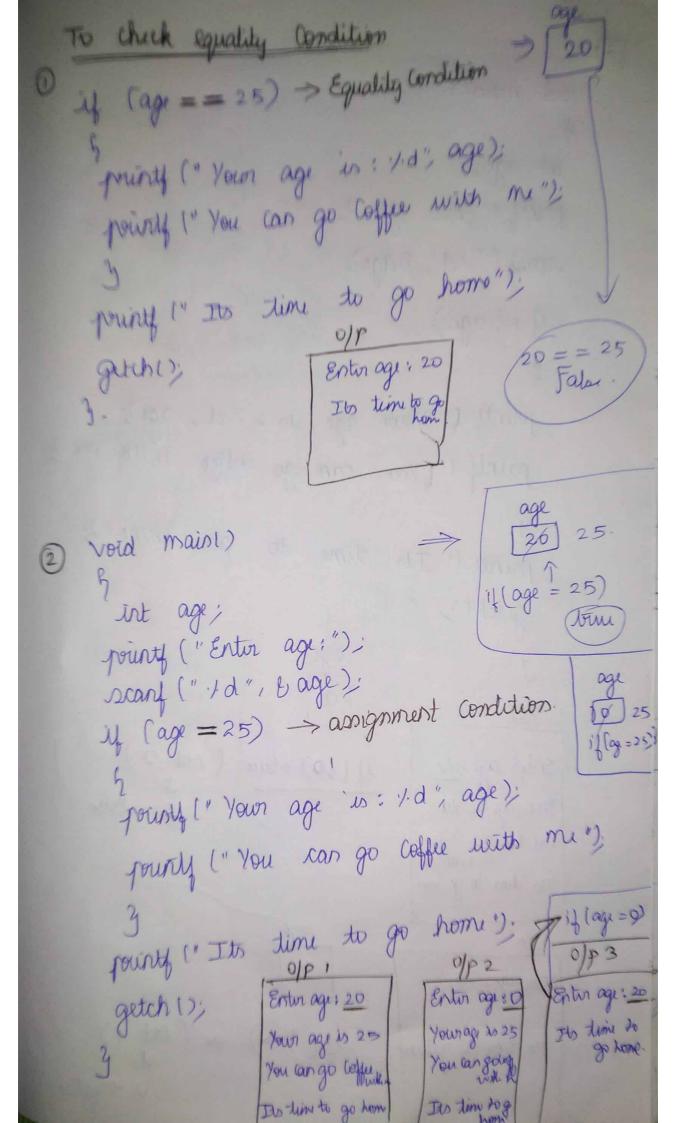
if with semicolon: void main() int a; printy ("Enter a: ") scarf (" x.d", &a);

if (a); -> Turminating if statement (no meaning to the church, which is the church of the chu points ("Inside if block"); prints (" value of a = 1.d", a? pourity (" out of if block"); getch (); 0/10 Enter a: 5 Enter a: 0 Inside if block Inside if black value of a = 5 value of a=0 out of if block. out of if block.

Example program: void main() int age; print ("Enter age: "); Dany ("Id", & age); if (age > 20) points ("Your age is: 1.d", age); point ("Your ear go Coffee with me"). points (" Its line to go home"); getch(); of 3: off 2 (without any braces) 9P1 Enter age: 15 Enter age: 19 You an go coffee with me Its time to

Enter age: 21 Your age is: 21 You can go Coffe with Is tim to go home

Its time to go hom.



Void main() int age; print (" Enter age: "?) scand ("Id", & age); 4 (! age) points (" Your age is: 1.d", age); paints 1" you can go coffee with me"). pourity (" Its time to go home"); geteh (); Enter age: 0 if (!0) > tour (not 0) Your age is: 0 You can go coffee with me Its time to go home age Enter age; 25 25 Its time to go hom

void main () int age; pounty ("Enter age:"); scanfi' 1.d", vage); if (age > 20 bb age 2 30) pount (" your age is: /d", age); pount ("You can go coffee with me"); if (age > 15) pounté (" Your age is .fd.", age); pounty (Its time to go home?); getch1); Enter age: 14 Enter age: 16 Entur age: 28 Your age is 16 "our age in 28 Ito time to go home prouss tormisated You can go coffee with in Your age is 28 to the bog hom.

CODE 1:

```
#include <stdio.h>
     #include <stdlib.h>
 3
    /* 1 if statement */
 4
     //if with single statement
 5
     int main()
 6
   □ {
         int a;
8
         printf("\nEnter a:");
9
         scanf ("%d", &a);
10
         if(a)
11
         printf("Inside if block\n");
         printf("Outside if block\n");
12
13
         getch();
14
15
16
17
```

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```
Enter a:0
Outside if block
Process returned 0 (0x0) execution time : 4.534 s
Press any key to continue.
```

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```
Enter a:5
Inside if block
Outside if block
```

CODE 2:

Enter a:0

Outside if block

```
#include <stdio.h>
  2
       #include <stdlib.h>
  3
      /* 2 if statement */
      //if with multiple statement
  5
       int main()
  6
     \square {
  7
        int a;
  8
            printf("\nEnter a:");
  9
            scanf ("%d", &a);
10
            if(a)
11
12
            printf("Inside if block\n");
13
            printf("Value of a:%d\n",a);
14
15
            printf("Outside if block\n");
16
            getch();
17
18
19
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Enter a:5
Inside if block
Value of a:5
Outside if block
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```

CODE 3:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
    /* 3 if statement */
     //if with semicolon terminates if condition either true or false
 4
 5
    int main()
 6
   □ {
 7
      int a;
         printf("\nEnter a:");
 8
9
         scanf ("%d", &a);
10
         if(a);
11
          printf("Inside if block\n");
12
13
          printf("Value of a:%d\n",a);
14
15
16
         printf("Outside if block\n");
17
         getch();
18
19
20
```

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```
Enter a:0
Inside if block
Value of a:0
Outside if block
```

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```
Enter a:5
Inside if block
Value of a:5
Outside if block
```

CODE 4:

```
#include <stdio.h>
      #include <stdlib.h>
 2
 3
     /* 4 if statement */
     //if with curly braces
 5
     int main()
 6
    □ {
 7
      int age;
         printf("\nEnter age:");
 8
 9
          scanf ("%d", &age);
10
          if(age>20)
11
12
          printf("Your age is:%d\n",age);
13
          printf("You can have coffee with me...\n");
14
15
16
          printf("Its time to go home...\n");
17
          getch();
18
19
20
```

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```
Enter age:18
Its time to go home...
```

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```
Enter age:21
Your age is:21
You can have coffee with me...
Its time to go home...
```

CODE 5:

```
#include <stdio.h>
     #include <stdlib.h>
 3
    /* 5 if statement */
     //if without curly braces
 4
 5
    int main()
 6
   ₽{
 7
      int age;
 8
         printf("\nEnter age:");
 9
         scanf ("%d", &age);
10
         if(age>20)
11
12
          printf("Your age is:%d\n",age);
13
          printf("You can have coffee with me...\n");
14
15
16
         printf("Its time to go home...\n");
17
         getch();
18
19
```

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```
Enter age:19
You can have coffee with me...
Its time to go home...
```

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```
Enter age:21
Your age is:21
You can have coffee with me...
Its time to go home...
```

CODE 6:

```
#include <stdio.h>
 2
     #include <stdlib.h>
    /* 6 if statement */
 4
     //if with equality condition
 5
     int main()
 6
    □ {
 7
      int age;
         printf("\nEnter age:");
 8
 9
         scanf ("%d", &age);
10
         if(age==25)
11
          printf("Your age is:%d\n",age);
12
13
          printf("You can have coffee with me...\n");
14
         printf("Its time to go home...\n");
15
16
         getch();
17
18
```

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```
Enter age:25
Your age is:25
You can have coffee with me...
Its time to go home...
```

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```
Enter age:20
Its time to go home...
```

CODE 7:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /* 7 if statement */
 4
     //if with assignment condition
 5
     int main()
 6
    □ {
 7
      int age;
 8
          printf("\nEnter age:");
 9
          scanf ("%d", &age);
          if (age=25)
10
11
12
           printf("Your age is:%d\n",age);
13
           printf("You can have coffee with me...\n");
14
15
          printf("Its time to go home...\n");
16
          getch();
17
18
```

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```
Enter age:21
Your age is:25
You can have coffee with me...
Its time to go home...
```

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Enter age:0

Your age is:25

You can have coffee with me...

Its time to go home...

CODE 8:

```
#include <stdio.h>
     #include <stdlib.h>
    /* 8 if statement */
 4
     //if with assignment condition
 5
     int main()
 6
    □ {
 7
      int age;
 8
         printf("\nEnter age:");
 9
         scanf ("%d", &age);
         if(age=0) //condition false
10
11
12
          printf("Your age is:%d\n",age);
13
          printf("You can have coffee with me...\n");
14
15
         printf("Its time to go home...\n");
16
         qetch();
17
18
```

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```
Enter age:20
Its time to go home...
```

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```
Enter age:0
Its time to go home...
```

CODE 9:

```
1
     #include <stdio.h>
 2
     #include <stdlib.h>
3  /* 9 if statement */
 4
    //if with not condition
 5
    int main()
 6
   □ {
7
      int age;
         printf("\nEnter age:");
8
9
         scanf("%d", &age);
10
         if(!age) //not condition, not 1 means result will be 0 that is false
11
12
          printf("Your age is:%d\n",age);
13
          printf("You can have coffee with me...\n");
14
         printf("Its time to go home...\n");
15
16
         getch();
17
18
```

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```
Enter age:0
Your age is:0
You can have coffee with me...
Its time to go home...
```

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```
Enter age:20
Its time to go home...
```

CODE 10:

```
#include <stdio.h>
 2
      #include <stdlib.h>
 3
      /* 10 if statement */
 4
     int main()
 5
     □ {
 6
       int age;
 7
          printf("\nEnter age:");
 8
           scanf ("%d", &age);
 9
           if(age>20 && age<30)
10
11
           printf("Your age is:%d\n",age);
           printf("You can have coffee with me...\n");
12
13
14
           if (age>15)
15
16
           printf("Your age is:%d\n",age);
17
           printf("Its time to go home...\n");
18
19
         getch();
20
21
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Enter age:28
Your age is:28
You can have coffee with me...
Your age is:28
Its time to go home...
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Enter age:16
Your age is:16
Its time to go home...
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Enter age:14
Process returned 0 (0x0)
                            execution time : 4.434 s
Press any key to continue.
```