```
3) for (i = 1; i <= 7; i--)

{

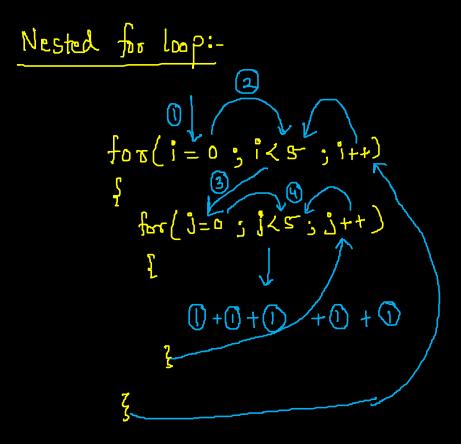
printf ("Hello");
}
  for (i=0; i<1);

for (i=0; i<1);

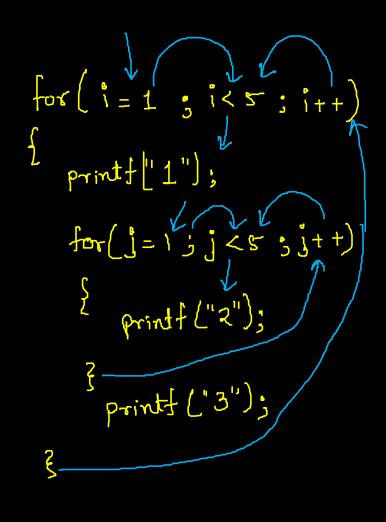
printf("Hello");

printf("Hello");
           printf (" Hello");
                                    for (i=1; i<5; i++) for(i=0; i<=5; i++)

{
    printf ("Hello");
    }
}
Output
                Hella
                                                                      Hello
                 Hello
```



$$= 0$$
 $= 0 - 4 = 5$
 $= 0$ $= 0 - 4 = 5$
 $= 0 - 4 = 5$
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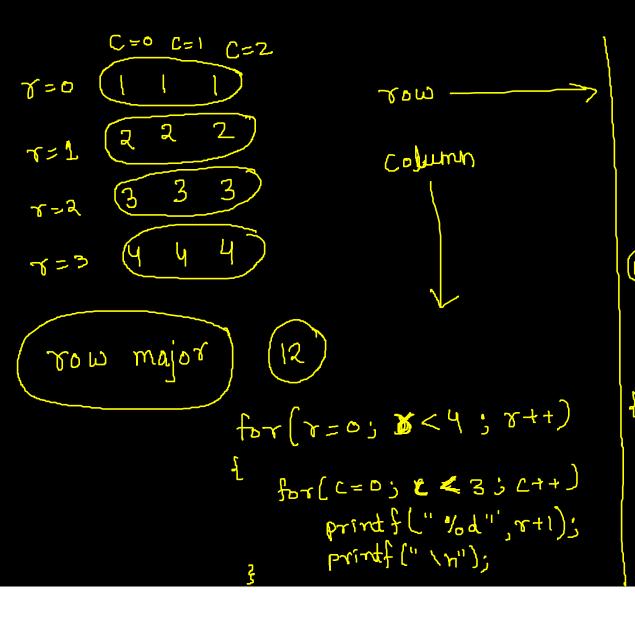
$$12223$$
 12223 12223 $1=3$

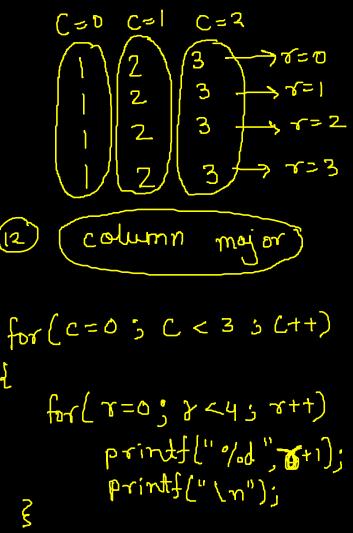
122233

1=4

1=3

```
for ( i=0; i < 5; i++) -----> i=[0-4] = 5 times
                                                                    ر
2 = 5
      printf(" 1"); ______ (5 times)
      for (j=0;j,45;j++) \rightarrow j=[0-4]=5 times
      print ( "2"); -> 5 x 5 = (25 times)
           for (K=0; K<5; K++) \rightarrow K=[0-4] = 5 times
            \begin{cases} \text{printf ("3")}; & \longrightarrow 5 \times 5 \times 5 = (125 \text{ times}) \end{cases}
            printf["4"); -> 25 times
            Printf("5"); } 5 times
```





for
$$(i=0; i = 4; i+1)$$

for $(j=0; i = 4; i+1)$
 $(i+1) = 4$
 $(i+1) = 3$
 $(i+1)$

break, Continue

WAP to print table of a number given by the user.

 $2 \times 1 = 2$ $2 \times 2 = 4$ $2 \times 3 = 6$:

```
i=0 (4-i <=j) && (j<=4+i)
                               =2
                               73
                               =4
                                for( i= 0; i < 5; i++)
· = 0
      j = 4
j = 3,4,5
                                 for ( j = 0; j <= 4+1; j++)
j = 2, 3, 4, 5, 6
j = 1, 2, 3, 4, 5, 6, 7
                                      if ( 4-1 <= j)
       1 = 0, 1, 2,3, 4, 5,6,7,8
1=4
                                       >rintf("*");
                                       Clse printf(" ").
                                  } printf("\n");
```

$$j=0$$
 123 4 5 6

 $j=0$
 $j=0$

$$i = 0$$
, $j = 0$
 $i = 1$, $j = 0$, 1
 $i = 2$, $j = 0$, 2
 $i = 3$, $j = 0$, 3
 $i = 4$, $j = 0,1,2,3,4$

Switch case:

- int/char switch ()

break;

2: COL

breaks case 3:

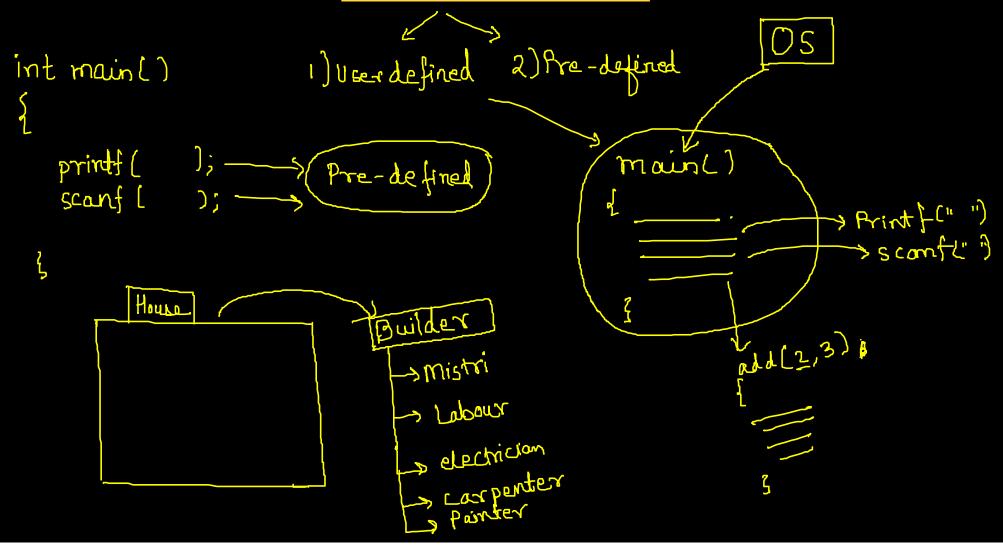
case 1:

breaks default:

- 1) Default get executed when you don't have matching case.
 - we can't use continue in switch care,

```
Goto Label:
   int main ()
     L: printf ("Hello");
     goto L;
```

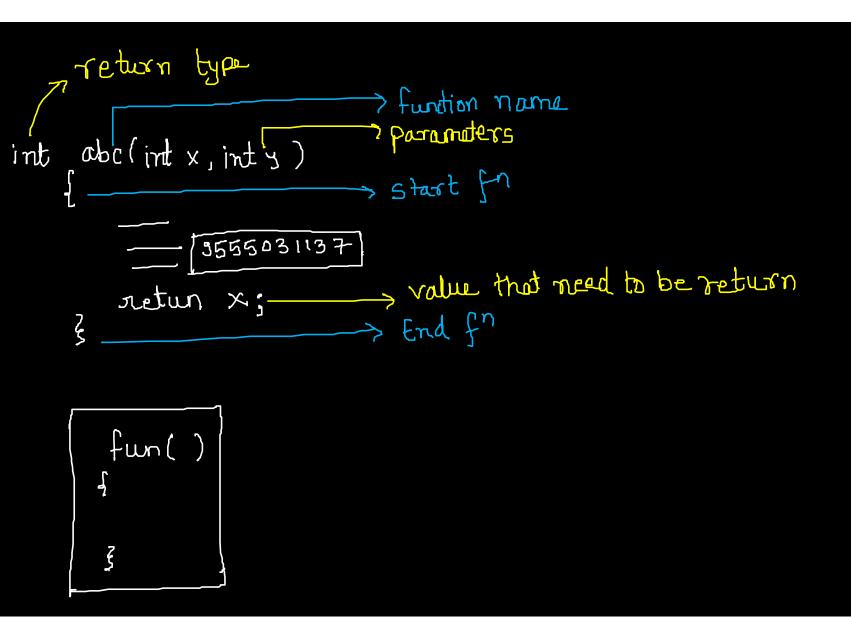
What is Function



```
int main()
d int a,b,C;
  prints ("Enter a no");
  Scanf["/d /d", ka, bb);
   C = a + b
  Printf ("Addition = "d", c);
   retusn 0;
```

- 1) Creation ___ main ()
- 2) Use/call -> printf/scomf

main is a special userdefined for its name is predafined.



TNRS void add () -> function create/ jot main () function defination int a, b 3 add(); --> function printf ["Enter 2 no"); لله ے scanf [" "/.d ".d", &a,&b); TNRN return 0; Printf ("Addition = "/od", a+b); 75

Function Declaration and Defination

Types of function

```
1) Take nothing & Return Nothing. -> void add();
2) Take nothing & Return Something. -> int add();
3) Take something & Return Nothing. -> void add(int);
4) Take Something & Return Something. -> int add(int);
```



