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Nested for loop=>loop ke ander loop

Nested loop : Loop के अन्दर Loop

```
For ( j=1 ; j ≤ 5 ; j=j+1)
{
        for ( i=1 ; i≤5 ; i=i+1) {

            printf("*");

        }

        Printf("\n");
}
```

```
*****

*****

*****

*****

*****
```

Steps for Pattern Printing :

1.Table Banao: Rows = i, Columns = j.

2.i=1 pe j dekho aur i=n pe bhi.

3.Pattern samjho, i aur j ka relation dhundo.

4.Nested loop mein daal ke verify karo.

```
*****
*****
*****
*****
*****
```

Step 1

columns

rows

Step 2

	j=1	j=2	j=3	j=4	j=5
i=1	*	*	*	*	*
i=2	*	*	*	*	*
i=3	*	*	*	*	*
i=4	*	*	*	*	*
i=5	*	*	*	*	*

i=1	**j=1,2,3,4,5**
i=2	j=1,2,3,4,5
i=3	j=1,2,3,4,5
i=4	j=1,2,3,4,5
i=5	j=1,2,3,4,5

```
*****

*****

*****

*****

*****
```

Step 3

i=1	j<=5
i=2	j<=5
i=3	j<=5
i=4	j<=5
i=5	j<=5

Step 4

j<=5

```c
#include<stdio.h>

void main(){

 int i ,j;
  for(i=1;i<=5;i++){

    for(j=1;j<=5;j++){

      if(j<=5){

        printf("*");
      }
      else{

        printf(" ");
      }
    }
    printf("\n");
  }
}
```

condition

*****

*****

*****

*****

*****

10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10

Step 1

rows

columns

Number pattern

	j=1	j=2	j=3	j=4	j=5
i=1	10	10	10	10	10
i=2	10	10	10	10	10
i=3	10	10	10	10	10
i=4	10	10	10	10	10
i=5	10	10	10	10	10

Step 2

i=1	j=1,2,3,4,5
i=2	j=1,2,3,4,5
i=3	j=1,2,3,4,5
i=4	j=1,2,3,4,5
i=5	j=1,2,3,4,5

10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10
10 10 10 10 10

Step 3

i=1	j<=5
i=2	j<=5
i=3	j<=5
i=4	j<=5
i=5	j<=5

Step 4

j<=5

Step 1

Number pattern

```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```

rows

columns

	j=1	j=2	j=3	j=4	j=5
i=1	1	1	1	1	1
i=2	2	2	2	2	2
i=3	3	3	3	3	3
i=4	4	4	4	4	4
i=5	5	5	5	5	5

Step 2

i=1	j=1,2,3,4,5
i=2	j=1,2,3,4,5
i=3	j=1,2,3,4,5
i=4	j=1,2,3,4,5
i=5	j=1,2,3,4,5

```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```

Step 3

i=1	j<=5
i=2	j<=5
i=3	j<=5
i=4	j<=5
i=5	j<=5

Step 4

i ko print karo

```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```

```c
#include<stdio.h>

void main(){

 int i ,j;
  for(i=1;i<=5;i++){

    for(j=1;j<=5;j++){

      if(j<=5){

        printf("%d",i);
      }
      else{

        printf(" ");
      }
    }
    printf("\n");
  }
}
```

columns

Number pattern

1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5

rows

	j=1 j=5	j=2	j=3	j=4	
i=1	1	2	3	4	5
i=2	1	2	3	4	5
i=3	1	2	3	4	5
i=4	1	2	3	4	5
i=5	1	2	3	4	5

Step 2

i=1	j=1,2,3,4,5
i=2	j=1,2,3,4,5
i=3	j=1,2,3,4,5
i=4	j=1,2,3,4,5
i=5	j=1,2,3,4,5

1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5

Step 3

i=1	j<=5
i=2	j<=5
i=3	j<=5
i=4	j<=5
i=5	j<=5

Step 4

j ko print karo

```
1 1 1 1 1
2 2 2 2 2
3 3 3 3 3
4 4 4 4 4
5 5 5 5 5
```

```c
#include<stdio.h>

void main(){

 int i ,j;
  for(i=1;i<=5;i++){


    for(j=1;j<=5;j++){


      if(j<=5){


        printf("%d",j);
      }
      else{


        printf(" ");
      }
    }
    printf("\n");
  }
}
```

```
54321
54321
54321
54321
54321
```

```c
#include<stdio.h>

void main(){

 int i ,j;
  for(i=1;i<=5;i++){

     for(j=5;j>=1;j--){

        if(j<=5){

           printf("%d",j);
        }
        else{

           printf(" ");
        }
     }
     printf("\n");
  }
}
```

Number
pattern

columns

1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25

rows

	j=1	j=2	j=3	j=4	j=5
i=1	1	4	9	16	25
i=2	1	4	9	16	25
i=3	1	4	9	16	25
i=4	1	4	9	16	25
i=5	1	4	9	16	25

Step 2

i=1	j=1,2,3,4,5
i=2	j=1,2,3,4,5
i=3	j=1,2,3,4,5
i=4	j=1,2,3,4,5
i=5	j=1,2,3,4,5

```
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
```

Step 3

i=1	j<=5
i=2	j<=5
i=3	j<=5
i=4	j<=5
i=5	j<=5

Ascending square pattern

Step 4

j *j ko print karo

```
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
1 4 9 16 25
```

```c
#include<stdio.h>

void main(){

 int i ,j;
  for(i=1;i<=5;i++){

    for(j=1;j<=5;j++){

      if(j<=5){

        printf("%d ",j*j);
      }
      else{

        printf("   ");
      }
    }
    printf("\n");
  }
}
```

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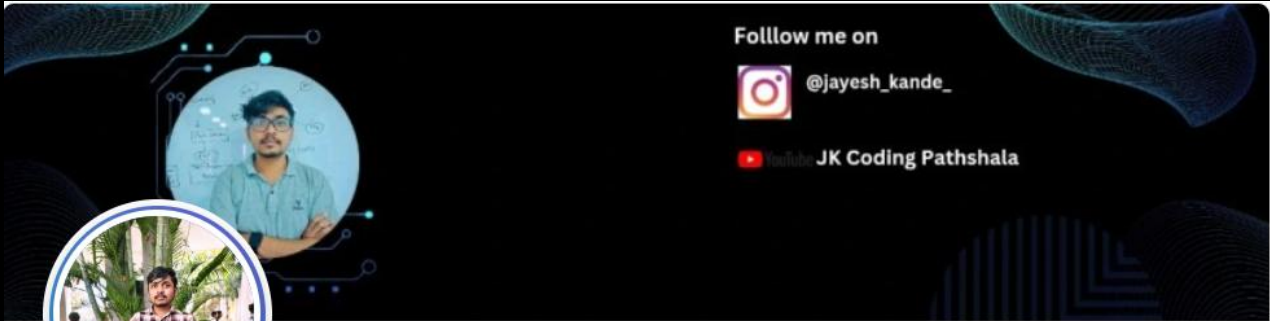
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