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LOOPING (REPEAT) STATEMENTS

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while( ) :-

syntax

```
while ( condition )
{ // TRUE
        statements;
        ----------
}
```

INCREMENT AND DECREMENT OPERATOR

++ --

i = i + 1--------i++

i = i - 1 --------i—

AIRTHMATIC ASSIGNMENT OPERATOR

+=, -=,*=,/=,%=

i = i + 2 ----------i+=2;

i= i - 5 ---------- i-=5

---

1. WAP FOR PRINT WELCOME 10 TIMES

```
#include<stdio.h>
  int    main()
  {          int i = 1 ;
             while( i <= 10 )
             {
                    printf(" WELCOME \n ");
                    i++;
             }
  }
```

---

trace :-

-----		**condi.**	**print**
	i = 1	1 <= 10	welcome
	i = 2	2 <= 10	"
		.	
		.	
	i = 10	10 <= 10	welcome
	i = 11	11 <= 10 X	

---

2. FIND OUTPUT

```
int i = 1 ;
while( i <= 10 )
{
        printf(" WELCOME \n ");
}
```

---

trace :-

	condi.	print
i = 1	1 <= 10	welcome
	1 <= 10	"
	.	
	.	
	infinite times	

---

program terminate :-

1. ctrl + break
2. alt + ctrl + del
3. WINDOW KEY

2

```
//  WAP FOR PRINT 1 TO 10 NOS
#include<stdio.h>
   int   main()
   {
              int  i = 1 ;
              while ( i <= 10  )
              {
                     printf("   %d\n",i);
                     i++;
              }
   }
```

---

trace :-

	condi.	print
i = 1	1 <= 10	1
i = 2	2 <= 10	2
.		
.		

i = 10 10 <= 10 10

i = 11 11 <= 10 X

// 3. WAP FOR PRINT ODD NOS

```
#include<stdio.h>
  int   main()
  {
            int  i = 1 ;
           printf(" ODD NOS \n ");
           while( i <= 10 )
            {
                 printf("%d\n",i);
                 i+=2;
            }
  }
```

	CONDI.	PRINT
i = 1	1 <= 10	1
i = 3	3 <= 10	3
.		
.		
i = 11	11 <= 10	X

---

1. printf(" i\n "); X

   i

   i

   .

   .

   I

2. printf(" 1 to 10 \n "); X

   1 to 10

   1 to 10

   .

   .

   10 times

---

4. WAP FOR PRINT 1 EVEN NOS

```
#include<stdio.h>
  int    main()
  {
            int i = 2;
            while( i <= 10 )
            {
                     printf("%d\t",i);
                     i+=2;
            }
  }
```

	CONDI.	**PRINT**
i = 1	1 <= 10	1
i = 2	2 <= 10	2
.		
.		
i = 10	10 <= 10	10
i = 11	11 <= 10 X	

---

5. WAP FOR PRINT 10 TO 1.

```
#include<stdio.h>
  int    main()
  {
            int i = 10;
            while( i >= 1 )
            {
                     printf(" %d\n",i);
                     i--;
            }
  }
```

	CONDI.	PRINT
i = 10	10 >= 1 ✓	10
i = 9	9 >= 1 ✓	9
.	.	
.	.	
i = 1	1 >= 1 ✓	1
i = 0	0 >= 1	X

// WAP FOR PRINT NOS B/W i TO n .

```
#include<stdio.h>
  int   main()
  {
            int   i , n ;
            printf("ENTER i and  n.\n");

            scanf("%d%d",&i,&n);

            while( i <= n )
            {
                  printf("    %d\t",i);
                  i++;
        }
  }
```

7. WAP FOR PRINT NOS B/W n TO i .

```
#include<stdio.h>
  int   main()
  {
            int   i ,n ;

            printf("ENTER N AND I\n");

            scanf("%d%d",&n,&i);

            while( n >= i )
            {
                  printf("%d\t",n);

                  n--;
            }
  }
```

---

do - while() :-

syntax

```
do
{
    statements;
    --------- ;
} while ( condition );
```

---

while	do-while
1. CHECK CONDITION	1. ONE TIME EXECUTE
2. EXECUTION	2. CHECK CONDITION
3. ENTRY CONTROL LOOP	3. EXIT CONTROL LOOP

```
// PRINT 1 TO 10 NOS USING DO-WHILE LOOP
#include<stdio.h>
  int    main()
  {
            int  i = 1 ;
            do
            {
                  printf("     %d\n",i);
                  i++;
            }while( i <= 10 );
  }
```

---

	condi.	print
i = 1		1
i = 2	2 <= 10	2
.		
.		
i = 10	10 <= 10	10
i = 11	11 <=10 X	
