

Loop : do while

DIFFERENCE BETWEEN WHILE LOOP AND DO-WHILE LOOP

While

```
int i = 0;
while(i > 0)
{
    printf("%d", i);
    i--;
}
```

Output: No Output

do-While

```
int i = 0;
do
{
    printf("%d", i);
    i--;
} while(i > 0);
```

Output: 0

while : cek kondisi, jika true jalankan statement

do while : jalankan statement dulu, baru cek kondisi

WHEN SHOULD I PREFER DO-WHILE OVER WHILE?

Write a program which allows user to enter an integer until he/she enters a value zero.

```
int n;
printf("Enter an integer\n");
scanf("%d", &n)

while(n != 0)
{
    printf("Enter an integer\n");
    scanf("%d", &n);
}

printf("You are out of the
loop")
```

```
int n;
do
{
    printf("Enter an integer\n");
    scanf("%d", &n);
} while(n != 0)

printf("You are out of the
loop")
```

Exercise : buat program deret sampai 10 angka, gunakan do while !

KELOMPOK	DERET
10	1 2 4 8 16 32 ...
4	1 5 3 10 5 ...
7	1 1 4 8 9 ...
9	2 2 4 6 10 ...
3	140 145 142 147 144 ...
	3 -1 2 1 1 ...
1	1 42 72 2 36 36 ...
6	6 5 4 3 7 6 5 4 8 ...
2	8 11 17 24 23 37 ...
8	8 1 11 4 14 9 17 ...

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