

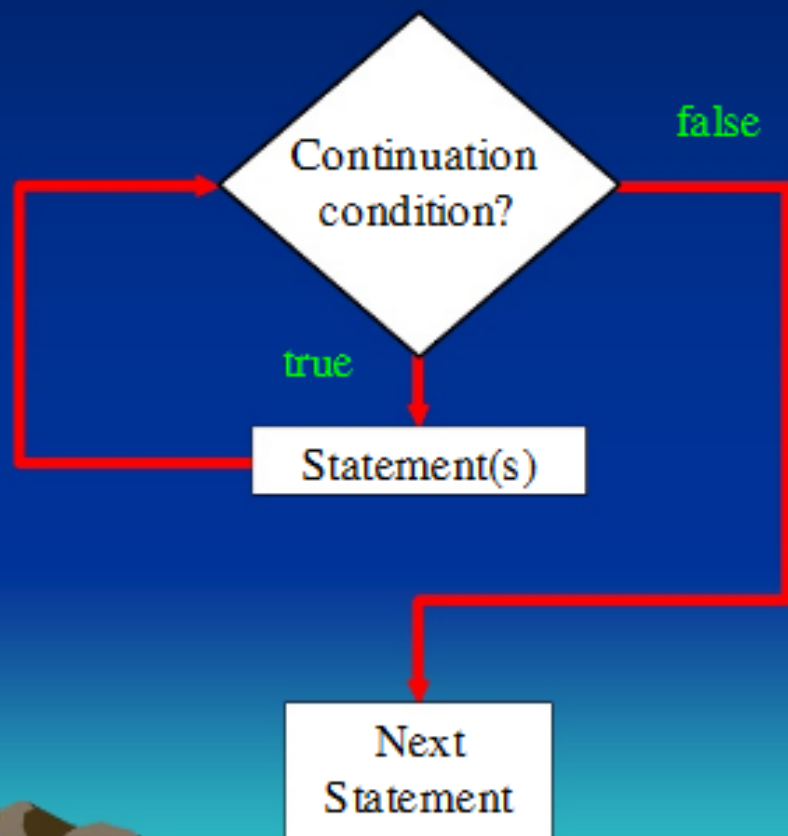
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Repetition Commands

Session 7

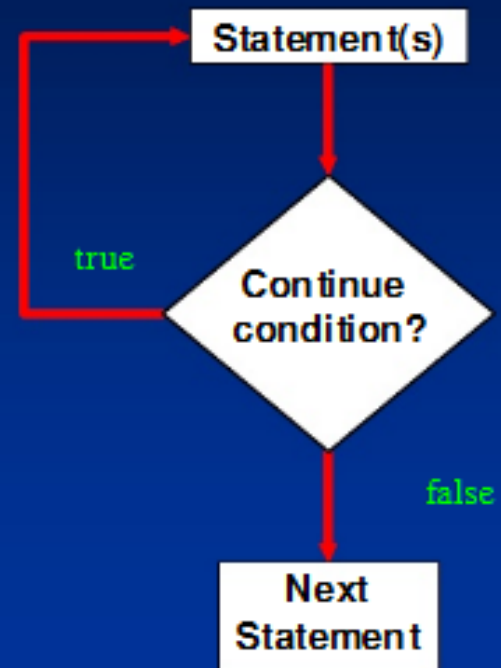
while Loop Flow Chart

```
while (continuation-condition)
{
  // loop-body;
}
```



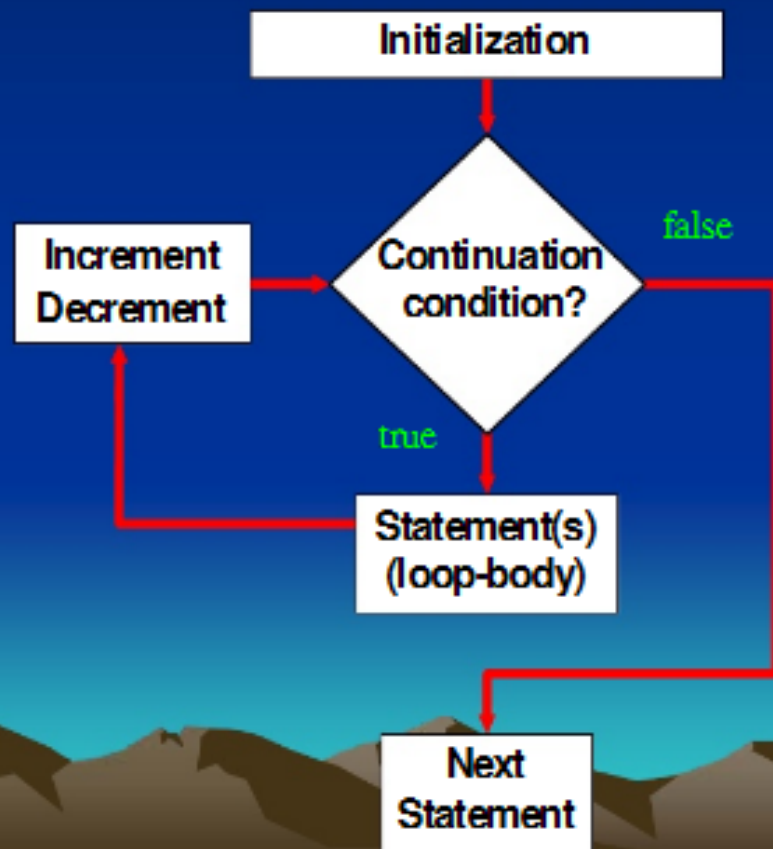
do-while Loop

```
do  
{  
    // Loop body;  
} while (continue-condition);
```



for Loop

```
for (initialization; condition; increment/decrement)
{
    //loop body;
}
```



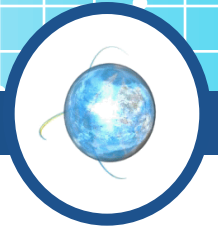


❖ The syntax of for loop is

```
for(initialisation;condition checking;increment)
{
    set of statements
}
```

Eg: Program to print Hello 10 times

```
for(l=0;l<10;l++)
{
    printf("Hello");
}
```



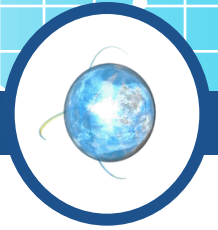
- ❖ The syntax for while loop

```
while(condn)
{
    statements;
}
```

Eg:

```
a=10;
while(a != 0)
{
    printf(“%d”,a);
    a--;
}
```

Output: 10987654321



❖ The syntax of do while loop

```
do
{
    set of statements
}while(condn);
```

Eg:

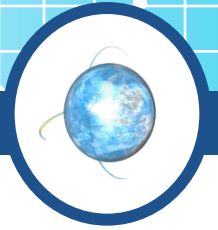
```
i=10;
do
{
    printf("%d",i);
    i--;
}while(i!=0)
```

Output:

10987654321

Exercise 6.1

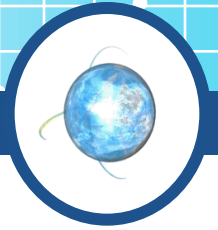
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```
1.  /* Program Perulangan menggunakan while */
2.  #include <stdio.h>
3.  #include <conio.h>
4.  void main()
5.  { int x;
6.
7.    clrscr();
8.    x = 1;                /* awal variabel */
9.    while (x <= 10)      /* Batas akhir perulangan */
10.   { printf("%d BAHASA C\n", x);
11.     x ++;                /* variabel x ditambah dengan
12.   1 */
13.   }
14. }
```


Exercise 6.2

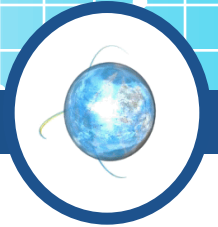
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```
1.  /* Program mencetak deret bilangan dengan menggunakan while */
2.  #include<stdio.h>
3.  #include<conio.h>
4.  void main()
5.  {
6.      int i=1,x;
7.      clrscr();
8.      while(i<=5)
9.      {   x=1;
10.         while(x<=i)
11.         {   printf("%3i",x);
12.             x=x+1;
13.         }
14.         printf("\n");
15.         i=i+1;
16.     }
17.     getch();
18. }
```

Task 6

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❖ Write a program to display the first 10 even numbers.