

C Loops

- Loops can execute a block of code until a specific condition is satisfied.
- Loops are handy because they save time, reduce errors, provides code re-usability and they make code more readable.
- Types of C Loops:
 - do while – It is similar to while loop, except that it tests the condition at the end of the loop body.
 - while - It tests the condition before executing the loop body.
 - for - It is used when you know exactly how many iterations are needed.

```
do{  
  //code to be executed  
}while(condition);
```

```
while(condition){  
  //code to be executed  
}
```

```
for(initialization;condition;incr/decr){  
  //code to be executed  
}
```

C Loop Control Statements



- Loop control statements change execution from its normal sequence. When execution leaves a scope, all local variables that were created in that scope are destroyed.
- C supports following control statements:
 - break – Terminates the loop/switch and transfers execution to the statement immediately following the loop or switch.
 - continue - It skips the current iteration of the loop and continues with the next iteration
 - goto – It transfers the control to the labeled statement.

```
goto label;  
... ..  
... ..  
label:  
statement;
```

```
int i;  
  
for (i = 0; i < 10; i++) {  
    if (i == 4) {  
        break;  
    }  
    printf("%d\n", i);  
}
```