C Programming Notes: Unit 3 - Loops

Contents

1 Loops

Loops allow executing a block of code multiple times.

1.1 For Loop

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

1.2 While Loop

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

1.3 Do-While Loop

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

1.4 Nested Loops

Loops within loops for complex iterations.

1.5 Break and Continue Statements

```
for (int i = 0; i < 10; i++) {
    if (i == 5) break; // exit loop
    if (i == 3) continue; // skip to next iteration
}
```