

## \* If - else syntax :

```
if (condition) {
    // block of code
} else {
    // block of code
}
```

```
for (statement 1;
     statement 2; statement 3)
{ // block of code }
```

## Conditional and Loops

- \* Condition provides check for the statement

- (1.) If - else statement →

↳ checks the boolean condition  
True or False

- (2.) Multiple - if - else statement →

↳ executes one condition from multiple statements.

- \* Loops used to iterate a part of program several times

- (1.) For loop →

↳ generally used when we know how many times loop will iterate

## Syntax

```
for (Initialization; condition; increment /decre.){  
    //body  
}
```

### (2.) while Loop →

↳ used when we don't know how many time the loop will iterate

## Syntax

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

### (3.) do while loop →

↳ used when we want to execute our statement at least one time.

↳ aka exit control loop because it checks the statement after execution of statement

## Syntax

```
do {
```

```
    //code to be executed  
    //update statement → increment / decre  
} while ( condition );
```

While loopDo while loop

- used when no. of iteration is not fixed
  - entry controlled loop
  - no semi colon required at the end of while (condition)
- used when we want to execute the statement at least ones.
  - exit controlled loop
  - semicolon is required at the end of while (condition).

\* Switch :

→ here we can jump to various cases based on your expression

Syntax

```
switch (expression) {
    // cases
    case one :
        // do something
        break ;
    case two :
        // do something
        break ;
    case three :
        // do something
        break ;
    default :
        // do something
}
```

→ If break is not used then it will continue with other cases.