Variables:
JavaScript:
Variables in JavaScript are declared using the var, let, or const keywords.
Example:
javascript
Copy code
```
var x = 5;
let y = 10;
const z = 15;
```
Java:
In Java, variables are strongly typed and must be declared with a specific data type.
Example:
java
Copy code
```
int x = 5;
double y = 10.5;
```
Python:
Python is dynamically typed, meaning variables don't need explicit declaration of data types.
Example:
python
Copy code
```
x = 5
y = 10.5
```
C++:
C++ variables must be declared with a specific data type before they can be used.
Example:
cpp
Copy code
```
int x = 5;
double y = 10.5;
```
Data Types:
JavaScript:
JavaScript supports primitive data types like numbers, strings, booleans, null, undefined, as well as complex types like objects and arrays.
Example:
javascript
Copy code
```
let num = 10;
let str = "Hello";
let bool = true;
let obj = { key: "value" };
let arr = [1, 2, 3];
```
Java:
Java has primitive data types such as int, double, boolean, char, and complex types like arrays and objects.
Example:

java
Copy code
int num = 10;
double decimal = 10.5;
char letter = 'A';
Python:
Python supports numbers (integers, floats), strings, booleans, lists, tuples, dictionaries, and more.
Example:
python
Copy code
num = 10
decimal = 10.5
string = "Hello"
C++:
C++ offers primitive data types like int, double, char, and complex types like arrays, structures, and classes.
Example:
cpp
Copy code
int num = 10;
double decimal = 10.5;
char letter = 'A';
Operators:
JavaScript:
JavaScript supports arithmetic, assignment, comparison, logical, bitwise, and ternary operators.
Example:
javascript
Copy code
let sum = 5 + 3;
let isEqual = (10 === 5);
Java:
Java supports similar operators to JavaScript along with additional ones for type casting and instance checking.
Example:
java
Copy code
int sum = 5 + 3;
boolean isEqual = (10 == 5);
Python:
Python has operators for arithmetic, comparison, logical, membership, and identity operations.
Example:
python
Copy code
sum = 5 + 3
is_equal = (10 == 5)
C++:
C++ offers a wide range of operators similar to Java and JavaScript, including arithmetic, comparison, logical, and bitwise operators.

Example:
cpp
Copy code
```
int sum = 5 + 3;
bool is_equal = (10 == 5);
```
Control Statements:
JavaScript:
JavaScript provides if-else statements, switch statements, for loops, while loops, and do-while loops for control flow.
Example:
javascript
Copy code
```
if (x > 0) {
    // do something
} else {
    // do something else
}
```
Java:
Java supports similar control statements to JavaScript with syntax differences.
Example:
java
Copy code
```
if (x > 0) {
    // do something
} else {
    // do something else
}
```
Python:
Python utilizes indentation for block structure and supports if-else statements, while loops, for loops, and more.
Example:
python
Copy code
```
if x > 0:
    # do something
else:
    # do something else
```
C++:
C++ control statements include if-else, switch, for, while, and do-while loops.
Example:
cpp
Copy code
```
if (x > 0) {
    // do something
} else {
    // do something else
}
```
Functions in JavaScript:
JavaScript:

Functions in JavaScript can be declared using the function keyword or using arrow functions (=>).
Example:
javascript
Copy code
```
function add(x, y) {
    return x + y;
}

let multiply = (x, y) => x * y;
```
Java, Python, C++:
Functions in Java, Python, and C++ are declared using the public (in Java), def (in Python), and function (in C++) keywords respectively.
Example (Java):
java
Copy code
```
public int add(int x, int y) {
    return x + y;
}
```
Example (Python):
python
Copy code
```
def add(x, y):
    return x + y
```
Example (C++):
cpp
Copy code
```
int add(int x, int y) {
    return x + y;
}
```
These explanations and examples should give you a comprehensive understanding of these fundamental programming concepts across different languages.