

Dart Programming - Boolean

Dart provides an inbuilt support for the Boolean data type. The Boolean data type in DART supports only two values – true and false. The keyword `bool` is used to represent a Boolean literal in DART.

The syntax for declaring a Boolean variable in DART is as given below –

```
bool var_name = true;
OR
bool var_name = false
```

Example

```
void main() {
  bool test;
  test = 12 > 5;
  print(test);
}
```

[Live Demo](#)

It will produce the following **output** –

```
true
```

Example

Unlike JavaScript, the Boolean data type recognizes only the literal `true` as true. Any other value is considered as false. Consider the following example –

```
var str = 'abc';
if(str) {
  print('String is not empty');
} else {
  print('Empty String');
}
```

The above snippet, if run in JavaScript, will print the message ‘String is not empty’ as the `if` construct will return true if the string is not empty.

However, in Dart, **str** is converted to *false* as `str != true`. Hence the snippet will print the message ‘Empty String’ (when run in unchecked mode).

Example

The above snippet if run in **checked** mode will throw an exception. The same is illustrated below –

```
void main() {
  var str = 'abc';
  if(str) {
    print('String is not empty');
  } else {
    print('Empty String');
  }
}
```

[Live Demo](#)

```
}  
}
```

It will produce the following **output**, in **Checked Mode** –

```
Unhandled exception:  
type 'String' is not a subtype of type 'bool' of 'boolean expression' where  
  String is from dart:core  
  bool is from dart:core  
#0 main (file:///D:/Demos/Boolean.dart:5:6)  
#1 _startIsolate.<anonymous closure> (dart:isolate-patch/isolate_patch.dart:2  
#2 _RawReceivePortImpl._handleMessage (dart:isolate-patch/isolate_patch.dart
```

It will produce the following **output**, in **Unchecked Mode** –

```
Empty String
```

Note – The **WebStorm** IDE runs in checked mode, by default.