

What are the variables types ?

| Type | Utility | Example |
|---------|---|---------------------------|
| Boolean | Represents a binary state, true or false. | true , false |
| Integer | Represents number that can be written without a fractional component. | 26 , 305 , 7 , 4018 |
| Float | Represents number that can be written with a fractional component. | 12.14 , 25.0 , 3.1415 , 6 |
| Char | Represents a unique character. | 'c' , 'A' , '\$' |
| String | Represents a series of characters (text). | "content of the channel" |



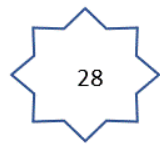
Compatibility of types



When you assign a value to a variable, the two types must be compatible with each other. For example, you cannot assign an string value to an integer variable.



Integer data type



Compatibility of types in operations

By now, we have learned what's are variables and the basics types that exist. As we have seen in the previous slide we cannot assign a value with type float to a variable with type string, this rule still true between variable themselves.

Only the exception of assigning an integer variable to a float variable.

As shown in the code below, we encourage you to try it yourself.

ALGORITHM types

VAR

```
i : INTEGER := 26;
f : FLOAT := 4.56;
c : CHAR := 'c';
s : STRING := 'str';
b : BOOLEAN := TRUE;
```

BEGIN

```
// this is a single line comment
/* this is
a multi line comment */
f := i; // correct
i := f; // wrong
// we cannot mix types
f := c; // wrong
s := c; // correct
```

```
b := i; // wrong
```

END

[< Previous](#)

[next >](#)

