

# “CONSTANT” in Java, C++, C#, Python

A constant is a variable whose value cannot  
be changed once it has been assigned.

# Constants in Java

- “static”, “final” used in Java to create a constant variable
- eg:
  - `static int days_in_week = 7;`
  - `static final int DAYS_IN_WEEK = 7;`

# Constants in C++

- Using *const* keyword

```
const int DAYS_IN_WEEK = 7;
```

- Using *#define* preprocessor

```
#define DAYS_IN_WEEK 7
```

# Constants in C#

- Using *const* keyword

```
const int MONTHS = 12;
```

- Using *enum* keyword

```
enum Day {Sat, Sun, Mon, Tue, Wed, Thu, Fri};
```

# Constants in Python

- Can not declare a constant in Python, but we can have one and do not change it.
- Constants are declared and assigned on a new file, eg: constant.py
- Inside the file, constants are written in all capital letters and underscores separating the words. When using constant, import the constant.py
- eg:

**In constant.py:**

**DAYS\_IN\_WEEK = 7**

**In main.py:**

**import constant.py**

**print(constant.DAYS\_IN\_WEEK)**