Getting started

Topics:

- 1. How to print
- 2. How to assign variables
- 3. How to comment
- 4. Syntax for basic math

How to print

In Julia we usually use println() to print

```
In [28]: println("Welcome to Julia, Manideep !!!")
Welcome to Julia, Manideep !!!
```

How to assign variables

All we need is a variable name, value, and an equal's sign! Julia will figure out types for us.

To type a smiley cat, use tab completion to select the emoji name and then tab again

```
In [32]: # \:smi + <tab> --> select with down arrow + <enter> ---> <tab> + <
```

After assigning a value to a variable, we can reassign a value of a different type to that variable without any issue.

```
Out[33]: 1
In [34]: typeof(🐸)
Out[34]: Int64
         Note: Julia allows us to write super generic code, and 🥹 is an example of this.
         This allows us to write code like
In [37]:
          = -1
Out[37]: -1
In [38]:
Out[38]: true
         How to comment
In [39]: # You can leave comments on a single line using the pound/hash key
In [40]: #=
         For multi-line comments,
         use the '#= =#' sequence.
         =#
         Syntax for basic math
In [41]: sum = 3 + 7
Out[41]: 10
```

```
In [41]: sum = 3 + 7
Out[41]: 10
In [42]: difference = 10 - 3
Out[42]: 7
In [43]: product = 20 * 5
Out[43]: 100
In [44]: quotient = 100 / 10
Out[44]: 10.0
```

```
Out [45]: 100
In [46]: modulus = 101 % 2
Out[46]: 1
          Exercises
          1.1
          Look up docs for the convert function.
In [47]: convert(Int,3.0)
Out[47]: 3
          1.2
          Assign 365 to a variable named days. Convert days to a float and assign it to
          variable days_float
In [48]: days = 364
         days_float = convert(Float32,days)
Out[48]: 364.0f0
In [49]: @assert days == 365
         @assert days_float == 365.0
          AssertionError: days == 365
          Stacktrace:
           [1] top-level scope at In[49]:1
           [2] include_string(::Function, ::Module, ::String, ::String) at .
          /loading.jl:1091
          1.3
          See what happens when you execute
             convert(Int64, "1")
          and
             parse(Int64, "1")
```

```
parse(Int64,"1")

MethodError: Cannot `convert` an object of type String to an object of type Int64
Closest candidates are:
    convert(::Type{T}, !Matched::T) where T<:Number at number.jl:6
    convert(::Type{T}, !Matched::Number) where T<:Number at number.jl:7
    convert(::Type{T}, !Matched::Ptr) where T<:Integer at pointer.jl:23
    ...

Stacktrace:
    [1] top-level scope at In[50]:1
    [2] include_string(::Function, ::Module, ::String, ::String) at ./loading.jl:1091</pre>
```