Data Types :
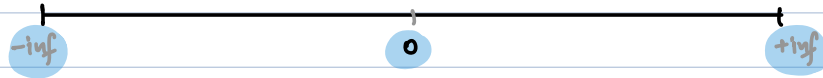
=> If live class not attended : Kindly watch the video first

Agenda :

↳ Data types
↳ Variables
↳ Input function
↳ Typecasting

★ Data Types :

i) Int
ii) float
iii) String
iv) boolean
v) None

i)   **Integers:**

|----------------|---------|----------------|
-inf   0   +inf

⇒ Integers are all numbers on this number line
   without decimal pt.

$$95 \quad ? \quad ✓$$
$$-1234567890? \quad ✓$$
$$0 \quad ? \quad ✓$$

ii)   **float:**

|----------------|---------|----------------|
- inf   0   + inf

⇒ Any number on this number line having
   '.' point is considered as float.

$$5.5 \quad ✓$$
$$0.0 \quad ✓$$
$$10.0 \quad ✓$$
$$-123.0 \quad ✓$$

iii) **Strings :**

     i)   Sequence of characters ✓
     ii)   Group of characters

     "Rahul" ≠ "luhaR"

What are characters ?

     i)   Alphabets $(a-z, A-z)$
     ii)   Digits $(0-9)$
     iii) Special characters   (@, #, $...)
     iv)   White space   (space)

Syntax of a string :

     i)   '   '
     ii)   "   "
     iii) """   """
     iv)   '''   '''

     "Rahul" == 'Rahul'

iv) **Boolean :**

    a)   True   →   Yes

    b)   False   →   No

v) **None :**

    ⇒ No value ...~~   void

★ **Type checking :**

    1   →   int

    0.5   →   float

    "a"   →   str

    True   →   bool

Quiz :

    a) " Rahul # '   ✗

    b) " @ rahul "   ✓

    c) ' Tura123 "   ✗

floats

a)   0.3   ✓
b)   .2   ✓
c)   "2.3"   ✗
d)   1.0   ✓
e)   "3.14"   ✗
f)   − 3   ✗
g)   5.   ✓

a , b , d, g