type Conversion in Python

La process of Converting one datatype

to another

[mplicit Explicit

(automatically) (manually)

1) Implicit type Conversion

```
x = 10  #int
y = 5.5  # float
z = x+y  # x is converted to float
ppint(z)
print(type(z))
```

Enflicit type Conversion

inter

jloafer

street

lister

seter

O storing to int

```
age = "28"
new_age = int(age)
ppint(new_age)
print(type(new_age))
```

number = 30

new_number = star(number)

paint (new-number)

(3) list p get numbers = [1, 2, 3, 2, 1] new.numbers = set (numbers) paint (-)

(4) String to glood $p_i = 3.14$ $new-li = float(p_i)$

E) pople to list
$$x = (10, 20)$$

$$new-x = list(x)$$

$$faint(new-x)$$

$$Ls tye(-)$$

Operabors

L> Symbols used to Perform oftenations on Variables & Values (oftenands) a+b

(1) Agrithmetic offerators

1)
$$t \Rightarrow 10 + 2 12$$

2) $- \Rightarrow 10 - 2 8$

3) $+ \Rightarrow 10 + 3 30$

10 $= 10/3 3-33$

3) Assignment often abors

$$x = 10\%3$$
 $x = 10\%3$
 $x = 1$

$$\chi = 10$$
frint($x > 5$ and $x < 20$)

Right shift

$$\frac{2\sqrt{5}}{2\sqrt{2}} = \frac{1}{2\sqrt{2}} = \frac{1}{2\sqrt{2}$$

6. membership aperators.

```
name = [ "Asuu", "Sowrow", "Sumit"]

Paint "Asuu" in name) Touce
```

```
name = ["Arun", "Souray", "Sumit"]
print("Arun" in name) # True
print("Arun" not in name) #False

print("A" in "Arun")
print("B" not in "Arun")
```

Identity offerations Complayes $\chi = L_{1,2}, 33$ > Y = X z=[1,2,3] Paint (x is y) // Towe Jaint (x & Z) //

It Basic Rules in Python D case-sensitive (name / Name) (2) uses indentation to define blocks of code 3 No need of semucolon Single line Comment > # multi line (omment =) La usefaiple quotes undenfation In let & output (> faint() -> Bydejault is if takes storing as in fut

age = influt "ENDT Your Age" | 1/ 25

```
name = input("Enter Your Name ")
print("Name:", name)

age = int(input("Enter Your age "))
print("Age:", age)
print(type(age))
```

Taking multiple inputs
Laspiro

```
x, y = input("Enter 2 numbers separated by space ").split()
print("first number: ", x)
print("second number: ", y)
```

He Painting outfut

```
x = 10
y = 20
sum = x+y
print("The sum of", x, "and", y, "is", sum)
print(f"The sum of {x} and {y} is {sum}")
```

```
print("Hello")
print("World!")

print("Hello", end = " ")
print("World!")
```