Python

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# Basic

## String

course = “Python Programing”

len(course) // 18

course[0] // P

course[-1] // g

course[0:3] // Pyt

course[0:] // Python Programing

course[:3] // Pyt

course[:] // Python Programing

## Escaping

\”

\’

\\

\n

## Formatting

first = “Ronnie”

last = “Kleinfeld”

full = f”{first} {name}”

## Operators

10 / 3 = 3.33333333335

10 // 3 = 3

10 % 3 = 1

10 \*\* 3 = 1000 10 ^ 3

## type

type(1.1) // int – variable type

## id

X = 1

Id(x) // 2376547623 – memory address

# Flow

## Condition

if temp > 30:

print(“It’s warm”)

print(“30”)

elif temp > 20:

print(“it’s nice”)

print(“20”)

else:

print”(It’s cold”)

print(“10”)

print (“Done”)

## Ternary

message = “Eligible” if age >= 18 else “Not Eligible”

## For Loop

for number in range(3):

print(“Number”, number) // Number 0, Number 1, Number 2

for number in range(1, 4):

print(“Number”, number) // Number 1, Number 2, Number 3

for number in range(1, 10, 2):

print(“Number”, number) // Number 1, Number 3, Number 5, Number 7, Number 9

for x in “String”:

print(i) // S, t, r, i, n, g

## For Else

for number in range(3):

print(“Attempt”)

else: // this will execute only if for completes all iterations

print(“Loop completed”)

## While Loop

number = 5

while number > 0:

print (number) // 5, 4, 3, 2, 1

number—

# Functions

## Function

def greet(name):

print(“Hi” + name)

print(“Hello”)

return name

name = greet(“Ronnie”)

## default args

def greet(name, age = 21):

## \*args -> Range

def multiply(\*numbers):

print(numbers) // 2, 3, 4, 5

multiply(2, 3, 4, 5)

## \*\*args -> Dictionary

def save\_user(\*\*user):

print(user) // {‘id’: 1, ‘name’: ‘John’, ‘age’: 22}

save\_user(id=1, name=”John”, age=22)