

PYTHON CLASS 9

REVIEW AND

IF-STATEMENTS, CONTINUED



TYPES REVIEW

```
traceee = print("Hello")
```

```
first_subject = "Biology"
```

```
second_subject = first_subject.replace("Bi"," Astr")
```

```
is_private_school = True
```

```
race_time = 8.629
```

```
number_of_tests = 6
```

What are the types of each variable?

FUNCTIONS AND IF REVIEW

```
def IsWednesday(d):  
    l = len(d)  
    print(l)  
    print(d)  
    return d == "Wednesday"
```

```
day = "Wednesday"
```

```
if IsWednesday(day):  
    print("I hate Wednesday!!!!!!!!!!!!!!!!!!!!")  
    print("I hate Wednesday!!!!!!!!!!!!!!!!!!!!")
```

```
else:  
    print("I hate " + day + ", too!!!!!!!!!!!!")  
    print("I hate " + day + ", too!!!!!!!!!!!!")
```

```
print("Actually, " + day + " is OK.")
```

What does IsWednesday do?

What statements will appear in the shell?

FUNCTIONS AND IF REVIEW

```
def IsWednesday(d):
```

```
    l = len(d)
    print(l)
    print(d)
    return d == "Wednesday"
```

```
day = "Wednesday"
```

```
if IsWednesday(day):
```

```
    print("I hate Wednesday!!!!!!!!!!!!!!!!!!!!")
    print("I hate Wednesday!!!!!!!!!!!!!!!!!!!!")
```

```
else:
```

```
    print("I hate " + day + ", too!!!!!!!!!!!!" )
    print("I hate " + day + ", too!!!!!!!!!!!!" )
```

```
print("Actually, " + day + " is OK." )
```

What does IsWednesday do?

What statements will appear in the shell?

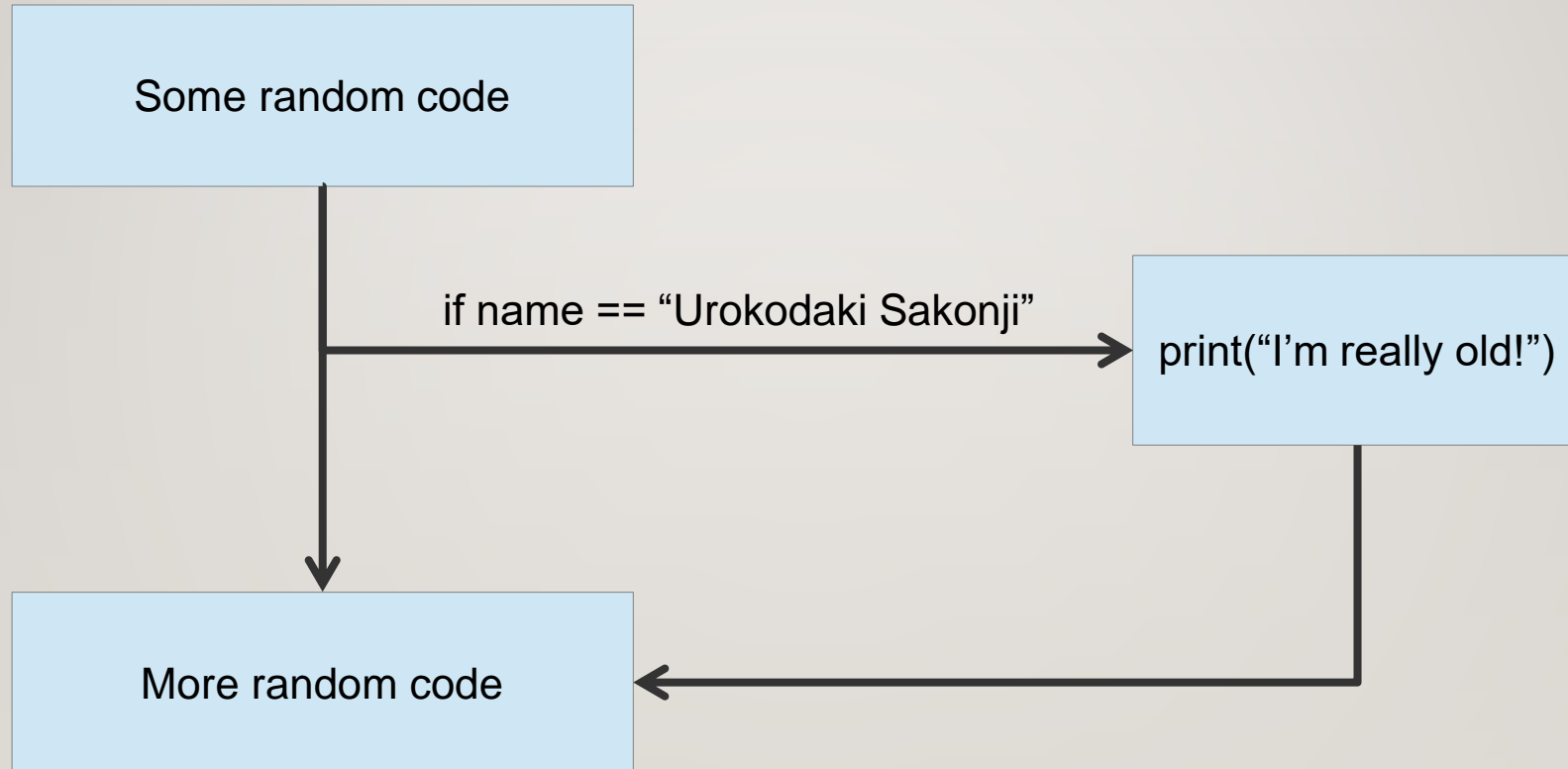
IF PRACTICE

- Let's make a simple program using if!
 - Create 3 variables called user1, user2, user3.
 - Give them any string value. (For example, user1 = "Sakura")
 - Create 3 variables called password1, password2, password3.
 - Give them any string value.
 - Ask the user to enter a name
 - Ask the user to enter a password
 - Use if and if...else to check if the entered user and password are correct.

IF STATEMENT

```
my_name = "Tomioaka Giyuu"  
  
if my_name == "Urokodaki Sakonji":  
    print("I'm really old!!")
```

VISUALIZING IF

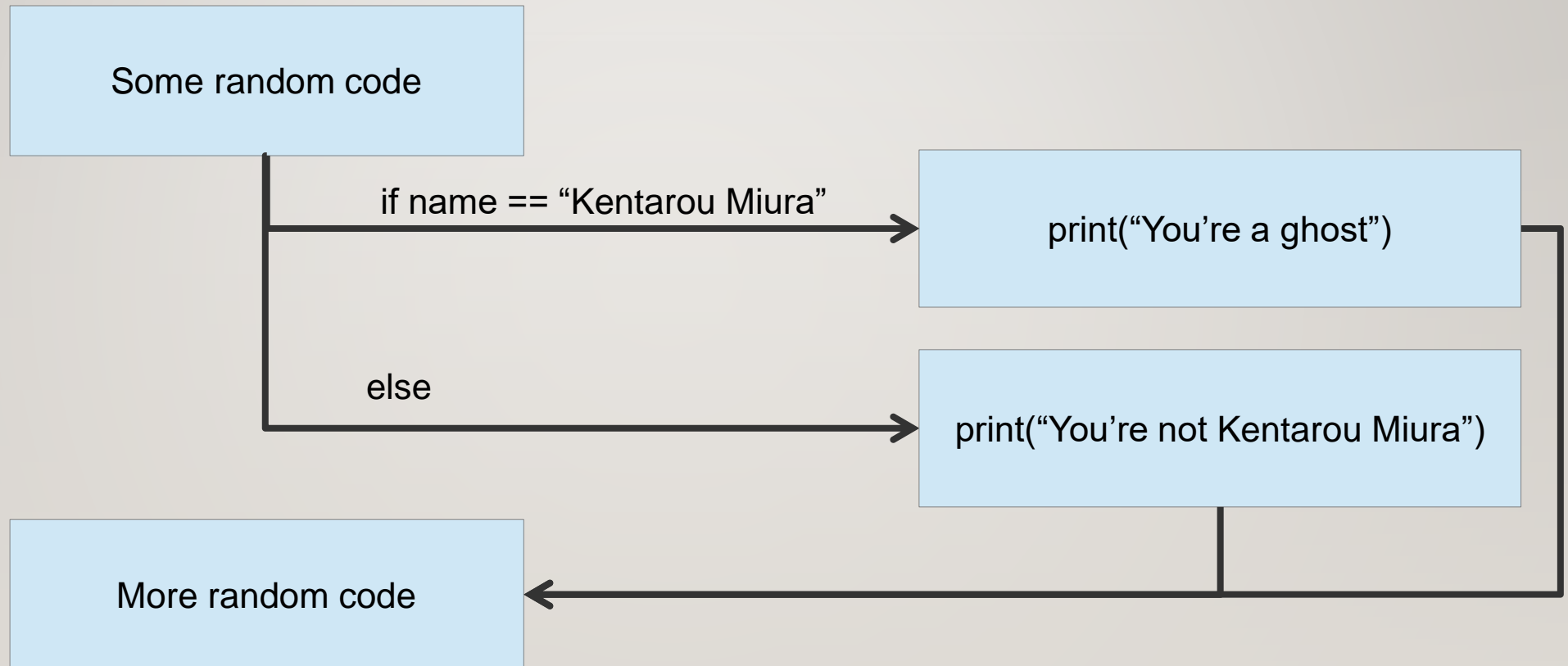


IF ... ELSE

```
name = input("Enter your name \n")

if name == "Kentarou Miura":
    print("You're a ghost!")
else:
    print("You're not Kentarou Miura")
```


VISUALIZING IF.ELSE



IF PRACTICE, 2

- Let's make another simple program using if!
 - Create 4 variables called `player_health`, `monster1_health`, `monster2_health`, `boss_health`.
 - Give them any float value. (For example, `player_health = 100`)
 - Create 3 variables called `player_attack`, `monster1_attack`, `monster2_attack`, `boss_attack`.
 - Give them any float value. (For example, `boss_attack = 25`)
 - Ask the user who to attack (monster 1, monster 2, boss).
 - Deal damage to that monster.
 - Have a random enemy attack the player.
 - Use if to check that the player is alive.
 - Use if to check that the enemies are alive.

Let's put this inside a loop so that it will repeat

Strange things about if in Python

```
my_website = "www.mysite.com"
```

```
if my_website:  
    print("This might be a real site")
```

Think about the type of
my_website

```
my_number = 987654321
```

```
if my_number:  
    print("This is a number")
```

Think about the type of
my_number



Strange things about if in Python

```
my_website = ""  
  
if my_website:  
    print("This might be a real site")
```

Think about the content/value of
my_website

```
my_number = 0  
  
if my_number:  
    print("This is a number")
```

Think about the content/value of
my_number



Strange things about if in Python

```
player_health = 50  
  
if player_health <= 0 or 1:  
    print("Player is dead!")
```

```
player_health = 50  
  
if player_health == 0 or player_health <0:  
    print("Player is dead!")
```