DAY

12

SETS IN PYTHON

WHAT IS A SET

IT REPRESENTS A UNIQUE
COLLECTION OF OBJECTS

MYSET = {"APPLE", "BANANA", "CHERRY"}

SET ITEMS ARE UNORDERED, UNCHANGEABLE, AND DO NOT ALLOW DUPLICATE VALUES.

```
SET1 = {"APPLE", "BANANA", "CHERRY"}
SET2 = {1, 5, 7, 9, 3}
SET3 = {TRUE, FALSE, FALSE}
```

SET1 = {"ABC", 34, TRUE, 40, "MALE"}

HOW TO CHECK FOR AN ITEM PRESENT OR NOT ?

```
PRINT("BANANA" IN THISSET)
```

HOW TO ADD AN ITEM ?

ADD()

```
THISSET = {"APPLE", "BANANA", "CHERRY"}

THISSET.ADD("ORANGE")

PRINT(THISSET)
```

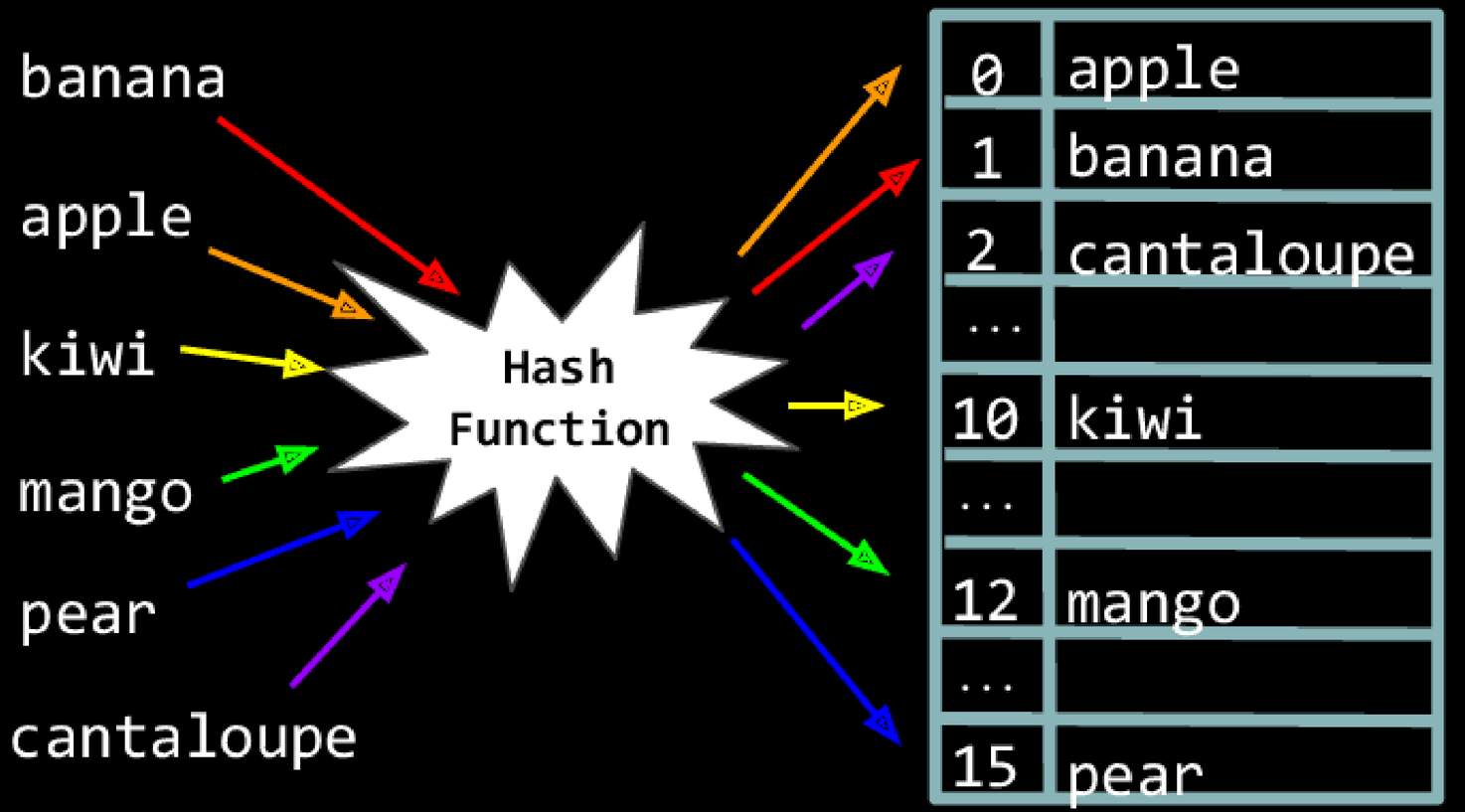
HOW TO ADD MANY ITEMS ?

```
THISSET = {"APPLE", "BANANA", "CHERRY"}
TROPICAL = {"PINEAPPLE", "MANGO", "PAPAYA"}

THISSET.UPDATE(TROPICAL)

PRINT(THISSET)
```

UPDATE()

RECAP OF DICTIONARIES

Hash Tables


banana
apple
kiwi
mango
pear
cantaloupe
Hash Function
0 apple
1 banana
2 cantaloupe
...
10 kiwi
...
12 mango
...
15 pear

MATH MODULE IN PYTHON

Constant	Description
math.e	Returns Euler's number (2.7182...)
math.inf	Returns a floating-point positive infinity
math.nan	Returns a floating-point NaN (Not a Number) value
math.pi	Returns PI (3.1415...)
math.tau	Returns tau (6.2831...)

DEMO EXAMPLES


THANK
YOU