PYTHON FOR BEGINNERS!

Exploring Math

ICE BREAKER

If you could be any superhero, which superhero would you be and why?

PYTHON BASICS RECAP

- Python is a special language that helps us talk to the computer and make it do cool things! 🖥️
- We've already learned how to do some basic arithmetic, like adding, subtracting, multiplying, and dividing numbers. 🧮
- Let's quickly review those concepts with a fun quiz!

QUIZ!

Kahoot

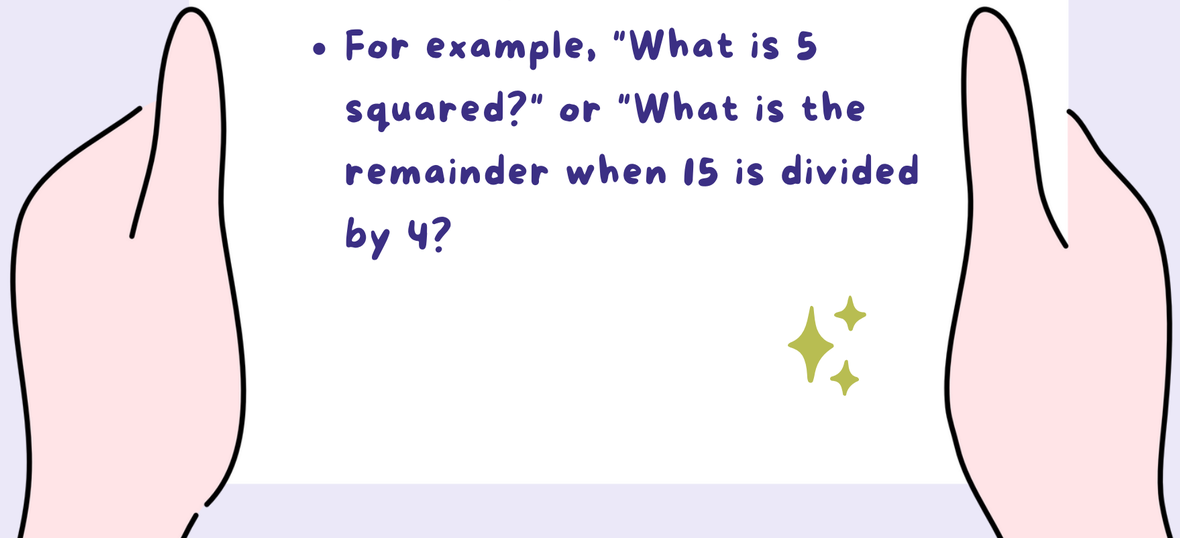
EXPLORING MORE ARITHMETIC

- We can do even more with Python! Let's learn about some other cool arithmetic operations:
  - Exponents: 2 ** 3 means 2 raised to the power of 3 (2 * 2 * 2).
  - Modulus: 10 % 3 gives us the remainder when 10 is divided by 3.
  - Floor Division: 10 // 3 gives us the quotient without the decimal part.
- Let's try these operations together with some fun challenges!

ACTIVITY: MATH WIZARD CHALLENGES

Python Calculator

- Present simple math problems using exponents, modulus, and floor division.
- For example, "What is 5 squared?" or "What is the remainder when 15 is divided by 4?



SQUARE ROOTS

- Square roots help us find the number that, when multiplied by itself, gives us a given number.
- Python has a special way to find square roots! Let's learn how to do it together.

SQUARE ROOTS

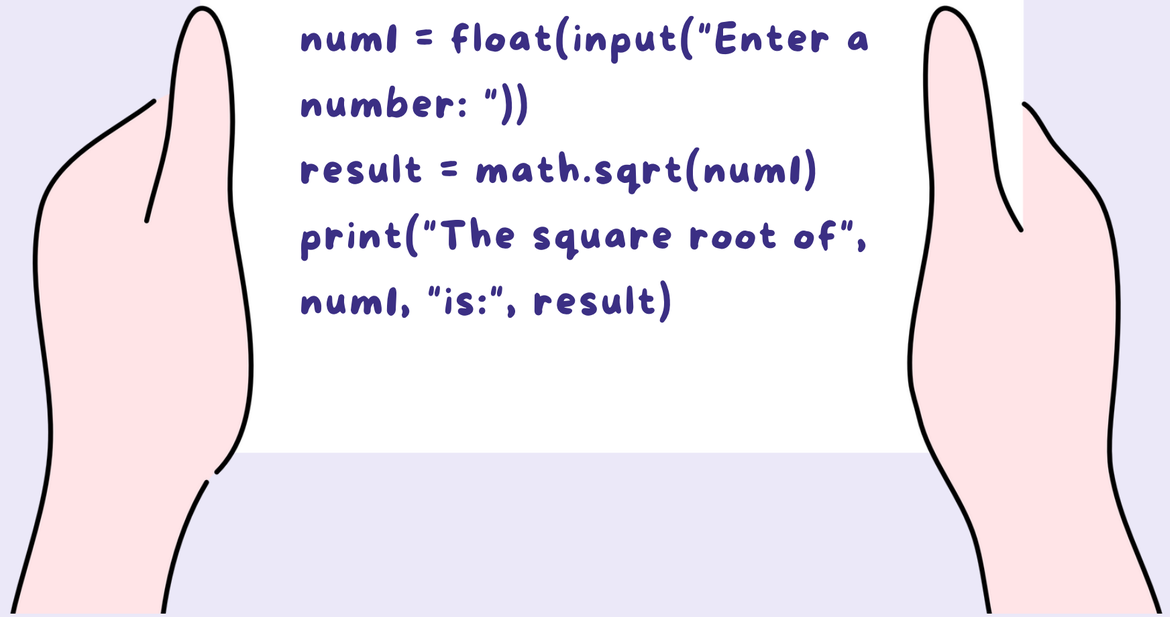
- To find the square root of a number in Python, we use the sqrt() function from the math module.
- Example: import math ➡ result = math.sqrt(16) ➡ print(result) ➡ Output: 4.0
- Now, let's practice finding square roots with some exciting examples!

PROJECT

Finding Square Roots

```
import math

print("Let's find some
square roots!")
num1 = float(input("Enter a
number: "))
result = math.sqrt(num1)
print("The square root of",
num1, "is:", result)
```



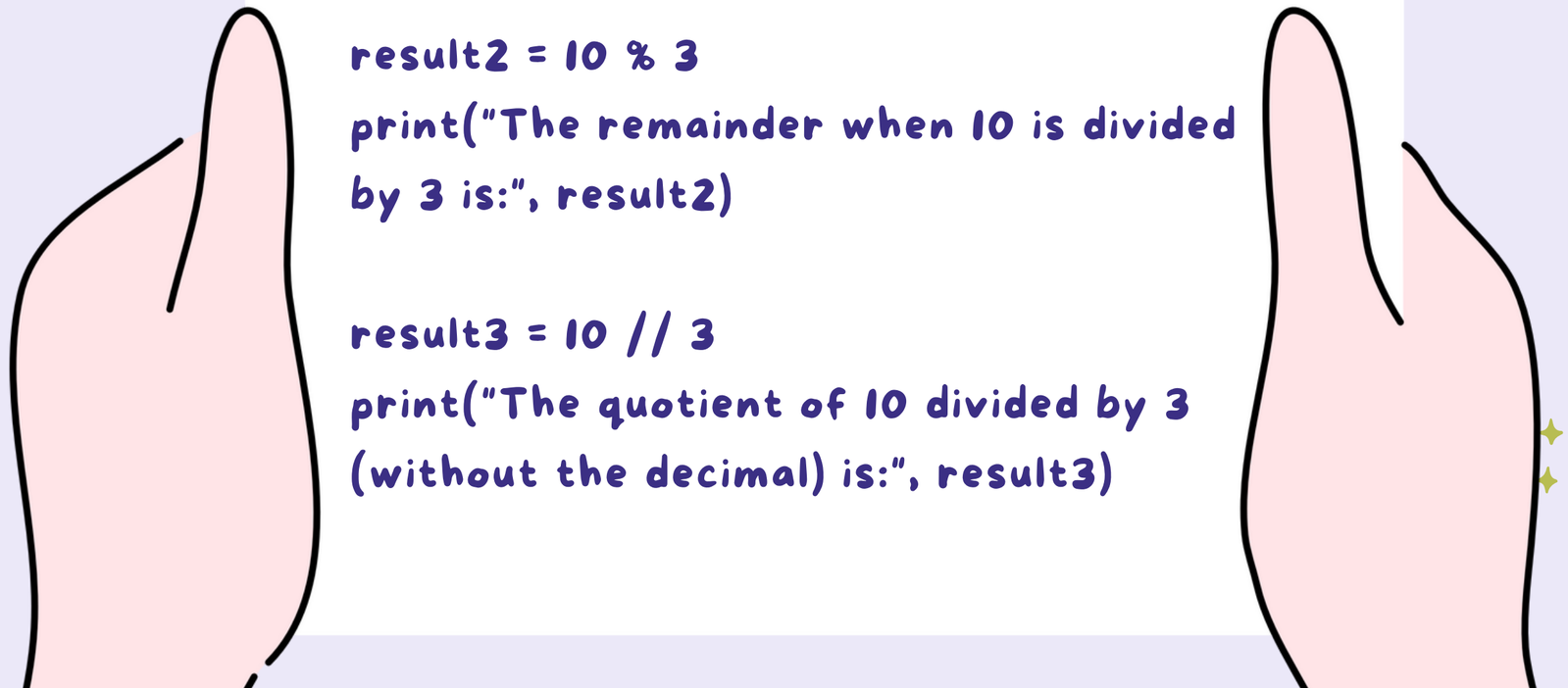
PROJECT

Math Wizard Challenges

```
print("Let's be math wizards and solve
some cool problems!")
result1 = 2 ** 3
print("2 raised to the power of 3 is:",
result1)

result2 = 10 % 3
print("The remainder when 10 is divided
by 3 is:", result2)

result3 = 10 // 3
print("The quotient of 10 divided by 3
(without the decimal) is:", result3)
```



HOMEWORK

Practice what we worked on in class today.

ANY QUESTIONS?


SEE YOU NEXT WEEK!

UPDATE

Ended up working with input functions for class to create an interactive game. Hand to wing it :)