**Day 1: Core Python Refresher**

* Data types: int, float, str, list, tuple, dict, set
* Conditionals (if, elif, else)
* Loops (for, while)
* Functions and scopes
* Basic input/output and string formatting

**1. Basic Data Types & Variables**

# Numbers and strings

x = 10

y = 3.14

name = "Alice"

# Boolean

is\_active = True

**2. Conditional Statements**

age = 20

if age >= 18:

print("Adult")

elif age >= 13:

print("Teen")

else:

print("Child")

**3. Loops**

# For loop

for i in range(5):

print(i)

# While loop

count = 0

while count < 5:

print(count)

count += 1

**4. Functions**

def greet(name):

return f"Hello, {name}!"

print(greet("Bob"))

**5. String Formatting**

name = "Sam"

age = 25

print(f"My name is {name} and I am {age} years old.")

**Quick Exercise:**

1. Write a function that checks if a number is even or odd.
2. Print all even numbers from 1 to 20.
3. Ask user for their name and age, then print a greeting message.