Road to DS/DA Day 01 Alston Alvares

Note: Solution for the exercises will be on GitHub.

# **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

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```
# For loop
for i in range(5):
    print(i)

# While loop
count = 0
while count < 5:
    print(count)
count += 1</pre>
```

#### 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.