Lab 2: Variables and Control Flow in Python

Learning Objectives:

By the end of this lab, students will be able to:

- Define and manipulate variables
- Apply arithmetic and comparison operators
- Use conditional statements (if, else, elif) to control program flow.

Tips:

- Use meaningful variable names.
- Follow Python naming rules.
- Use comments to explain your code.
- Test your code with different inputs.

Exercises:

Exercise 1: Variable Basics

Write a Python program that:

1. Defines a variable name with your name.
2. Defines a variable age with your age.
3. Prints a sentence like:
   "Hello, my name is Arwa and I am 21 years old."

Exercise 2: Weekly Pay Calculator

Create a program that calculates weekly pay:

#Python

```
hours = 40
rate = 15.5
pay = hours * rate
print("Weekly pay is:", pay)
```

Try changing the values of hours and rate to see different results.

Exercise 3: Age Comparison

Write a program that compares two ages:

Python

```
age1 = 25
age2 = 30
```

- Print which age is greater.
- Check if the ages are equal.

Exercise 4: Day Checker

Write a program that asks the user to enter a day (sun, mon, ..., thu) and:

- If the day is thu, fri, or sat, print: "Have a nice weekend!"
- Otherwise, print: "Have a productive day!"

Exercise 5: Grade Evaluator

Write a program that asks the user to enter a score (0–100), then prints the corresponding grade:

- A if score ≥ 90
- B if score ≥ 80
- C if score ≥ 70
- D if score ≥ 60
- F if score < 60

Use if, elif, and else statements.
