### 📘 ****Lesson 1: Introduction to Programming and Python****

What is programming?

Giving instructions to a computer to perform tasks.

Why Python?

Easy to read and write.

Widely used in many fields (web, AI, automation).

python

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# Your first Python programprint("Hello, world!")

### 📘 ****Lesson 2: Variables and Data Types****

Variables store data.

Common data types: int, float, str, bool

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# Example variables

age = 25

name = "Alice"

height = 5.7

is\_student = True

### 📘 ****Lesson 3: User Input and Output****

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# Taking user input

name = input("What is your name? ")print("Hello,", name)

### 📘 ****Lesson 4: Conditional Statements (if/else)****

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age = int(input("Enter your age: "))

if age >= 18:

print("You are an adult.")else:

print("You are a minor.")

### 📘 ****Lesson 5: Loops****

**For loop**: repeat a block for a range or collection

**While loop**: repeat while a condition is true

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# For loopfor i in range(5):

print("Count:", i)

# While loop

x = 0while x < 3:

print("x is", x)

x += 1

### 📘 ****Lesson 6: Functions****

Functions organize reusable code

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def greet(name):

print("Hello", name)

greet("Alice")

### 📘 ****Lesson 7: Lists and Loops****

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fruits = ["apple", "banana", "cherry"]

for fruit in fruits:

print("I like", fruit)

### 📘 ****Lesson 8: Dictionaries****

Store data as key-value pairs

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person = {

"name": "Bob",

"age": 30

}

print(person["name"])

### 📘 ****Lesson 9: Basic Error Handling****

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try:

num = int(input("Enter a number: "))

print("Double:", num \* 2)except ValueError:

print("That's not a number!")

### 📘 ****Lesson 10: Practice Exercise****

**Problem:**  
Write a program that asks for a number and prints whether it's even or odd.

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num = int(input("Enter a number: "))

if num % 2 == 0:

print("Even number")else:

print("Odd number")