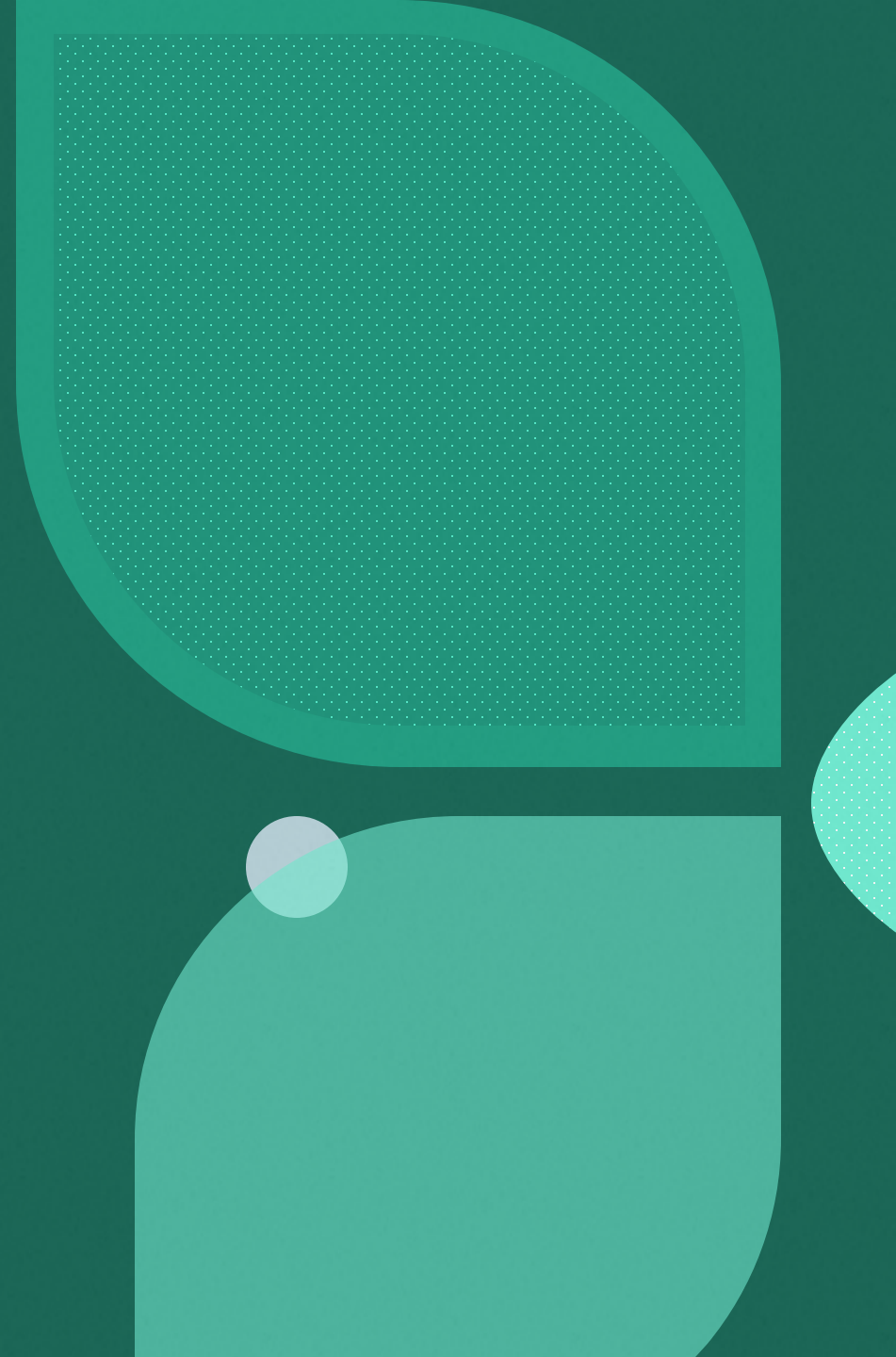


Tops Technology

Module 15) Advance Python Programming

Presented By :

Nandni Vala



Reading Data from Keyboard

1. Using the input() function to read user input from the keyboard.

➤ The input() function is used to read input from the user via the keyboard. It always returns the input as a string.

➤ **Syntax:**

➤ input(prompt)

➤ **prompt:** (Optional) A string message displayed to the user before input.

➤ **Examples:**

➤ **Basic Input:**

➤ name = input("Enter your name: ")

➤ print(f"Hello, {name}!")

➤ **Output:**

➤ Enter your name: Nandni

➤ Hello, Nandni!

2. Converting user input into different data types (e.g., int, float, etc.).

- user input from the `input()` function is always returned as a string. To use the input as a different data type (e.g., int or float), you need to convert it explicitly using type conversion functions.
- **Converting User Input**
- **To Integer (int):**
 - `num = int(input("Enter an integer: "))`
 - `print(f"Square of the number: {num ** 2}")`
- **To Float (float):**
 - `decimal = float(input("Enter a decimal number: "))`
 - `print(f"Half of the number: {decimal / 2}")`
- **To Boolean (bool):**
 - `value = bool(input("Enter a value (non-empty = True, empty = False): "))`
 - `print(f"Boolean value: {value}")`
- **To List:**
 - `items = input("Enter items separated by spaces: ").split()`
 - `print(f"List of items: {items}")`