

# Unit 3: Processing and Validating User Inputs

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Prerequisites: [Python Language Overview](#)

## Learning Objectives

In this unit, we'll learn how process and validate user inputs in Python as we create tools to facilitate business operations.

## Discussions and Notes

- User Interfaces (UI) and User Experience (UX)
- Capturing and Validating User Inputs:
  - [The `input\(\)` Function](#)

Optional Further Exploration (for students seeking greater difficulty level):

- Native Graphical User Interfaces (GUIs):
  - [The `PySimpleGUI` Package](#)
  - [The `tkinter` Package](#)
- Messaging Interfaces:
  - [The `sendgrid` Package](#) (for sending emails)
  - [The `twilio` Package](#) (for sending SMS)
  - [The `tweepy` Package](#) (for sending tweets 🐦)
- Voice Interfaces:
  - [The `speech\_recognition` Package](#)
- Web Application Interfaces:
  - [The `flask` Package](#) (advanced)

## Activities and Exercises

- ["Rock, Paper, Scissors" Exercise](#)
- ["User Interface Capabilities" Exercise](#) (intermediate / advanced)
- ["Shopping Cart" Project](#)