

Python Mini Projects List Covering This Repo

#	Project	Topics/Skills Required	Heavily Depended On
1	Simple Calculator	Functions, Math Operations, Conditional Statements, Input Validation	Math Operations, Functions
2	Dice Rolling Game	Functions, Random Module, Loops, Conditional Statements, Input/Output	Random Module, Functions
3	Number Guessing Game	Functions, Random Module, Loops, Conditional Statements, Input/Output	Random Module, Loops
4	Rock, Paper, Scissors Game	Functions, Conditional Statements, Loops, Input/Output, Optional: Dictionaries (for scoring)	Conditional Statements, Functions
5	Mini Quiz Game	Dictionaries, Loops, Functions, Random Module, Input Validation, File/JSON (for score save/load)	Loops, Dictionaries, Random
6	Student Management System	Lists, Dictionaries, Functions, File I/O, JSON, Loops, Conditional Statements, Input Validation	File I/O, Dictionaries, Functions
7	To-Do List Application	Lists, Dictionaries, Loops, Functions, File I/O, JSON, Input Validation	Lists/Dictionaries, File I/O
8	Contact Book	Dictionaries, Lists, Functions, File I/O, JSON, Loops, Input Validation	File I/O, Dictionaries, Functions
9	QR Code Generator	Functions, Modules, Libraries (qrcode), File I/O, Optional: Image Saving	External Library, Functions
10	Refactoring: Modularizing Code	Functions, Modules, Importing, Code Organization, DRY Principle	Functions, Modules
11	Refactoring: Applying the DRY Principle	Functions, Loops, Modules, Code Reuse, Importing	Functions, Loops

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