

Module Practice Questions (20)

1. Use `math.sqrt()` to find the square root of a number.
2. Use `math.floor()` and `math.ceil()` to round 5.67.
3. Generate a random number between 1 and 100.
4. Print 5 random integers between 10 and 20.
5. Print today's date using `datetime.date.today()`.
6. Print the current year, month, and day separately.
7. Print the current working directory using `os.getcwd()`.
8. List all files in the current directory using `os.listdir()`.
9. Print the current Python version using `sys.version`.
10. Convert a JSON string to a dictionary using `json.loads()`.
11. Use `math` functions to compute $\cos(0)$, $\sin(90^\circ)$, and $\log(10)$.
12. Simulate rolling a dice 10 times and store the results.
13. Print how many days are left for your next birthday.
14. Convert the date '2022-05-15' to a `datetime` object and add 30 days.
15. Create a new folder named 'backup' using `os.mkdir()`.
16. Convert a dictionary to JSON using `json.dumps()`.
17. Use regex to extract all digits from a string.
18. Check if a string starts with 'Hello' using regex.
19. Find mean, median, and mode using the `statistics` module.
20. Measure execution time of a loop from 1 to 1,000,000 using `time` module.