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Python - Collections, Functions And Modules In Python Batch – 10\_june\_Python;

**Module – 7**

**9. Modules**

**Q1]. Introduction to Python modules and importing modules.**

**▪ Introduction to Python modules and importing modules**

**A module is a file containing Python code (functions, variables, classes) you can reuse.**

* **Importing built-in module:**

**import math**

* **Creating custom module:  
  Create a file mymodule.py and import:**

**import mymodule**

**Q2]. Standard library modules: math, random.**

**▪ Standard library modules: math, random**

* **math module: Mathematical functions**

**import math**

**math.sqrt(16)**

**math.floor(2.9)**

**math.ceil(2.1)**

* **random module: Generate random values**

**import random**

**random.randint(1, 100)**

**random.choice(["a", "b", "c"])**

**Q3]. Creating custom modules.**

**▪ Creating custom modules**

**Create a Python file, e.g., myutils.py**

**def greet(name):**

**return f"Hello, {name}"**

**Import it in another file:**

**import myutils**

**print(myutils.greet("Alice"))**